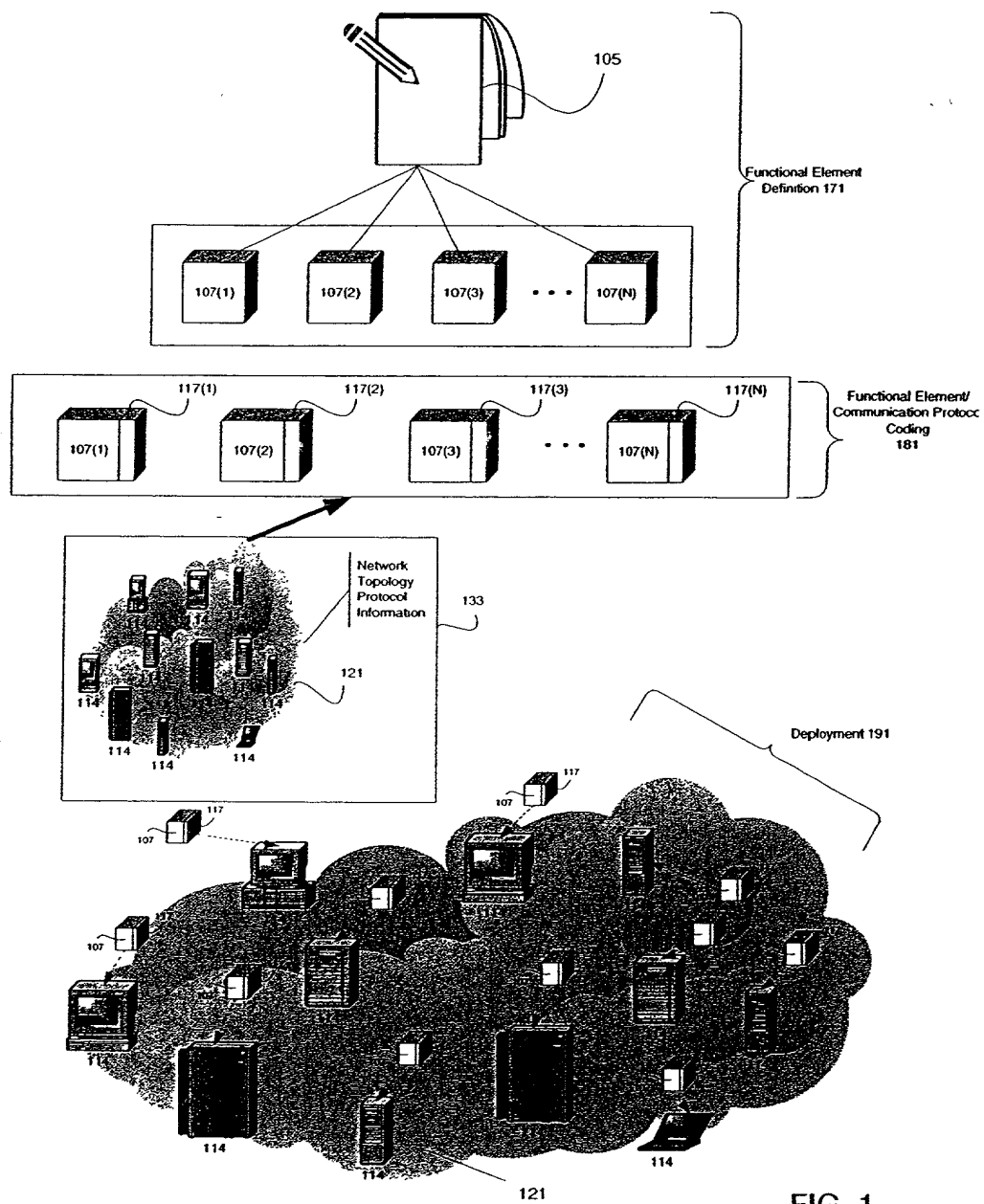


24



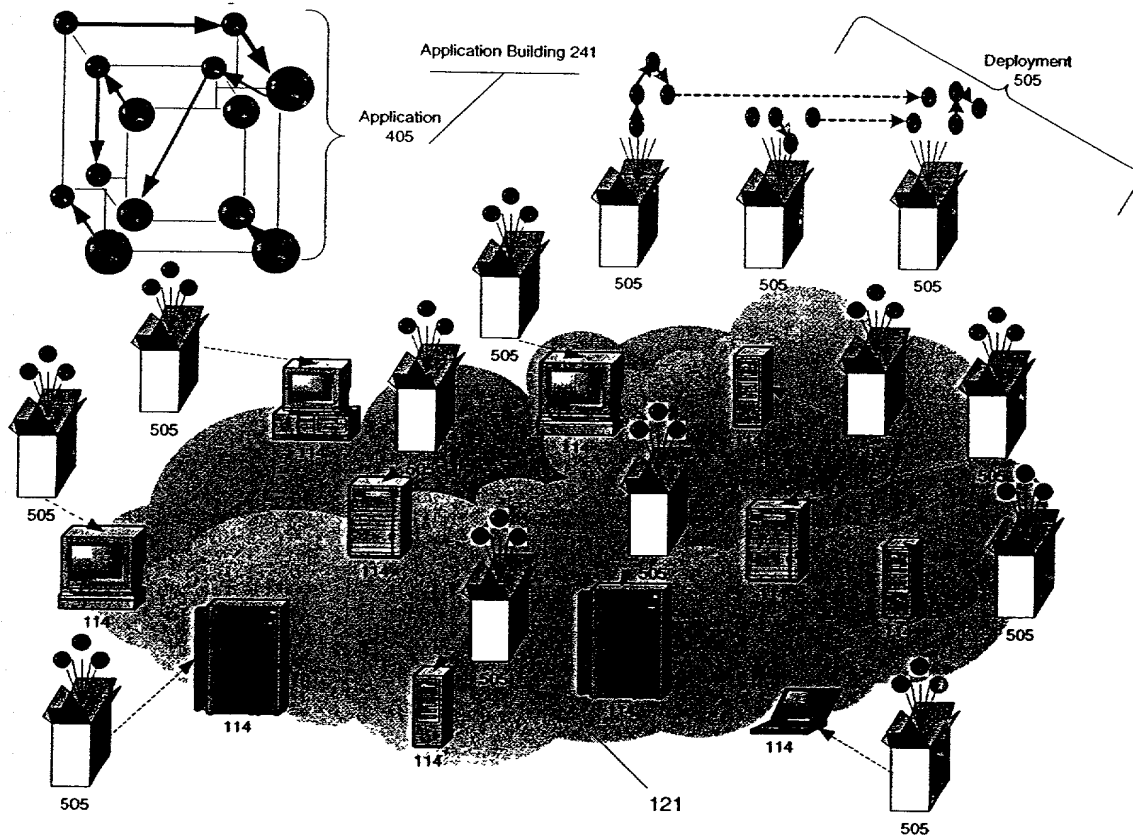
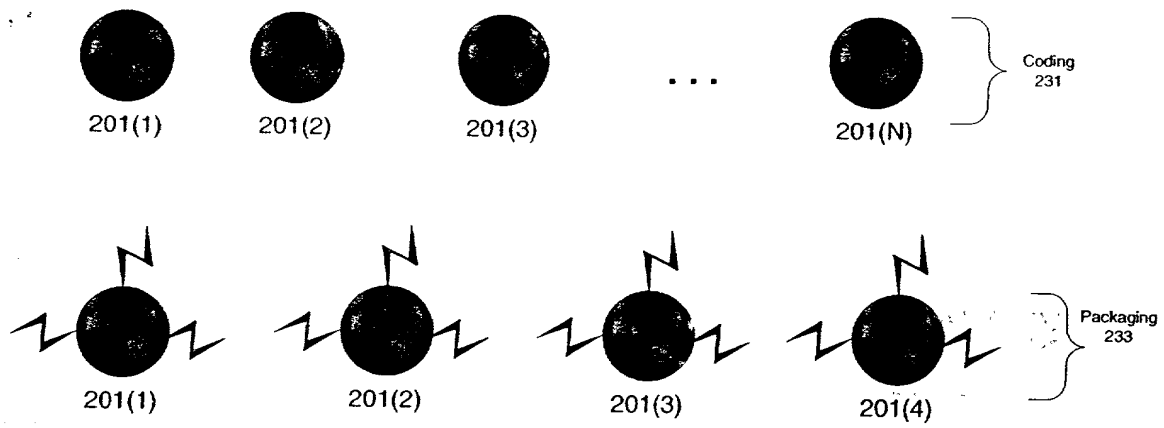


FIG. 2a

20100905-030400

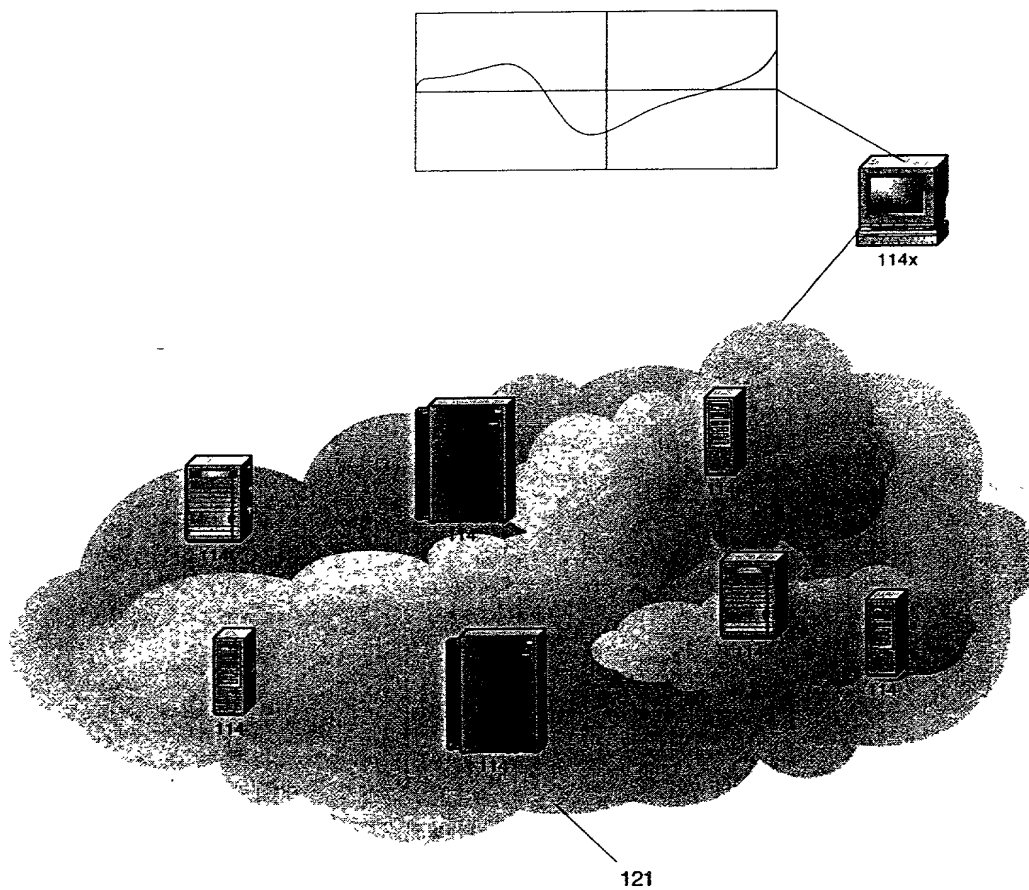


FIG. 2b

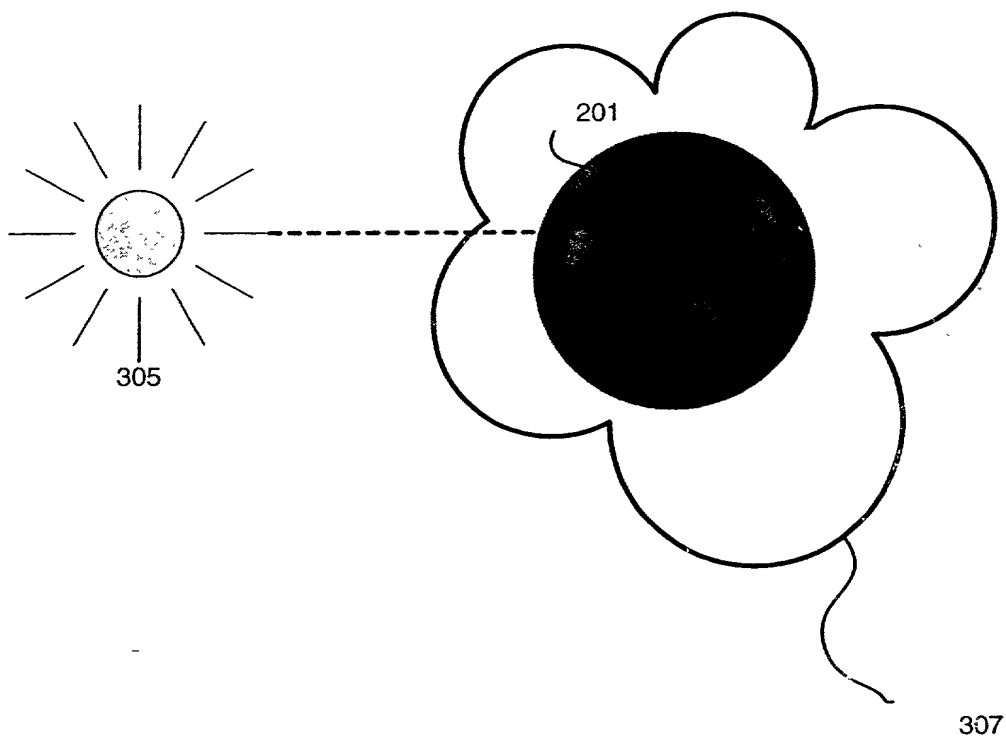


FIG. 3a

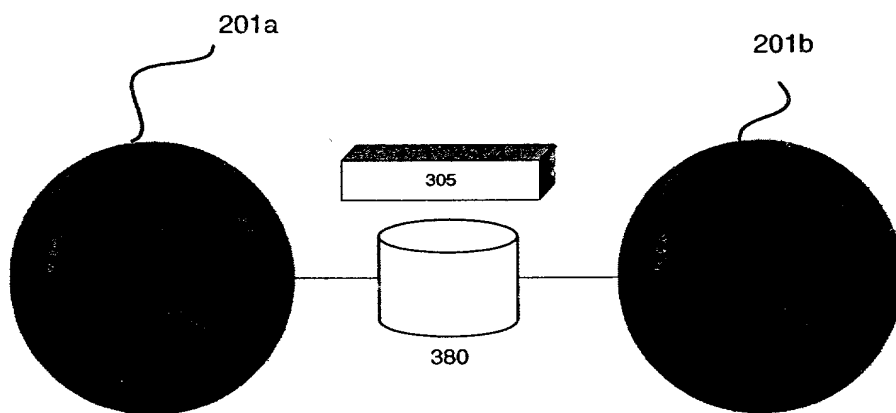


FIG. 3b

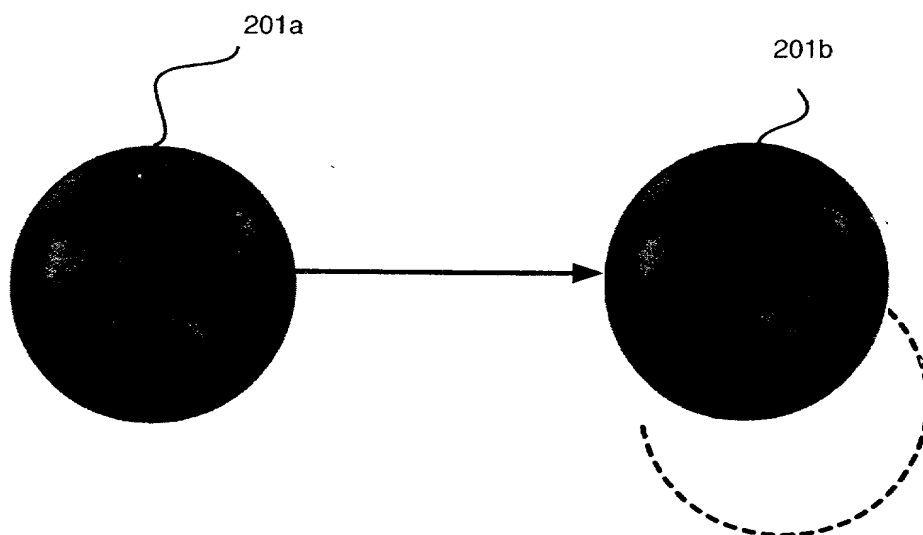


FIG. 3c

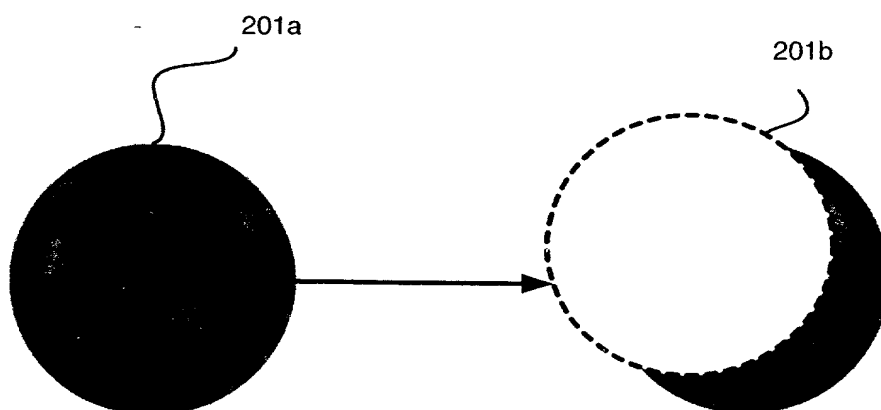


FIG. 3d

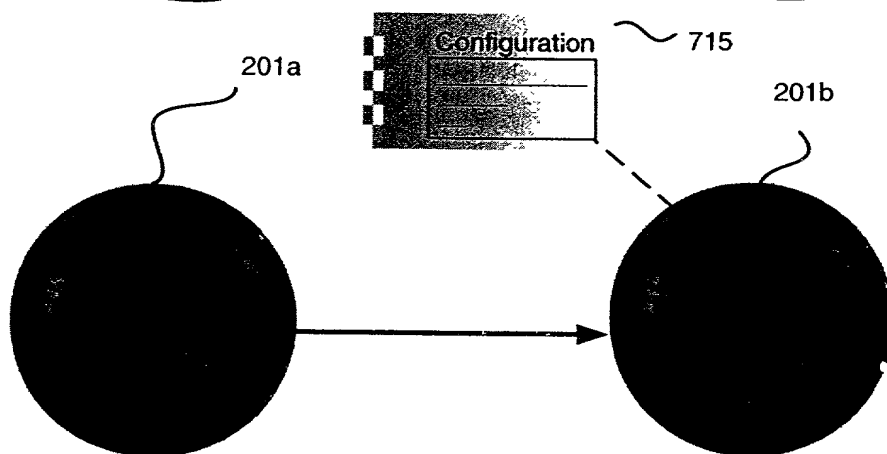


FIG. 3e

204020-9967001

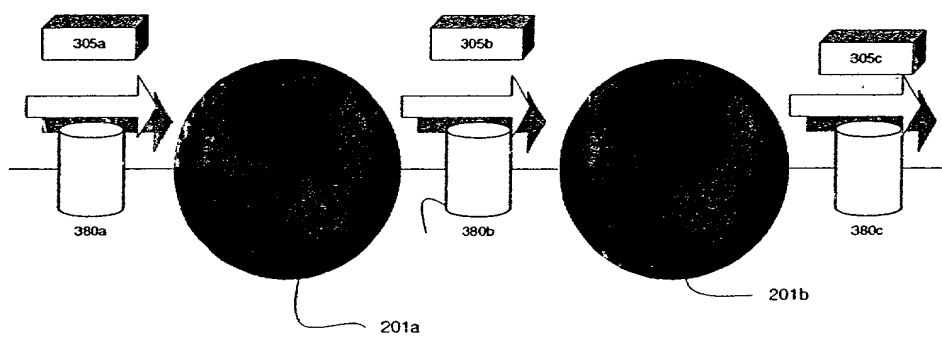


FIG. 3f

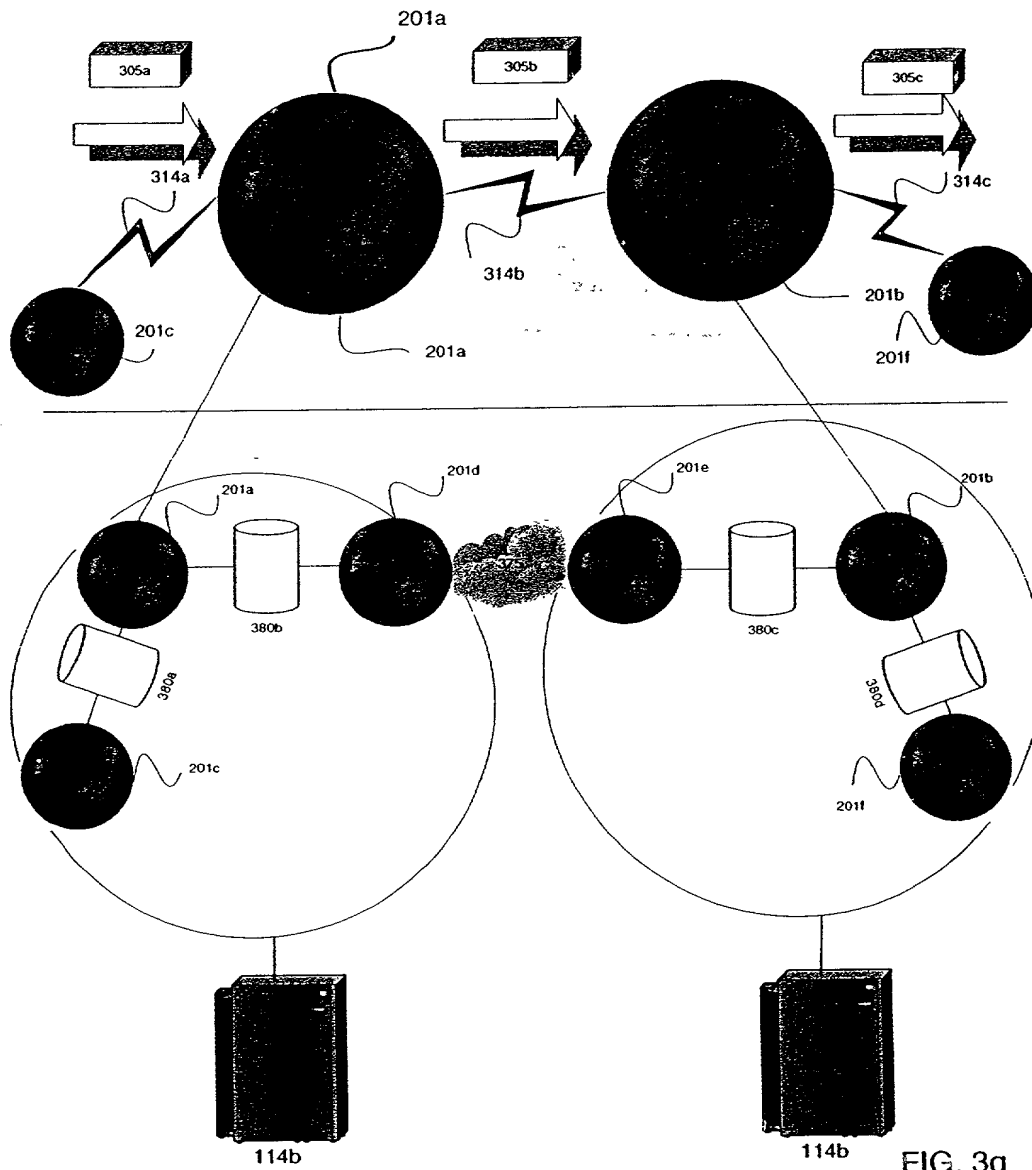


FIG. 3g

201009-99551001

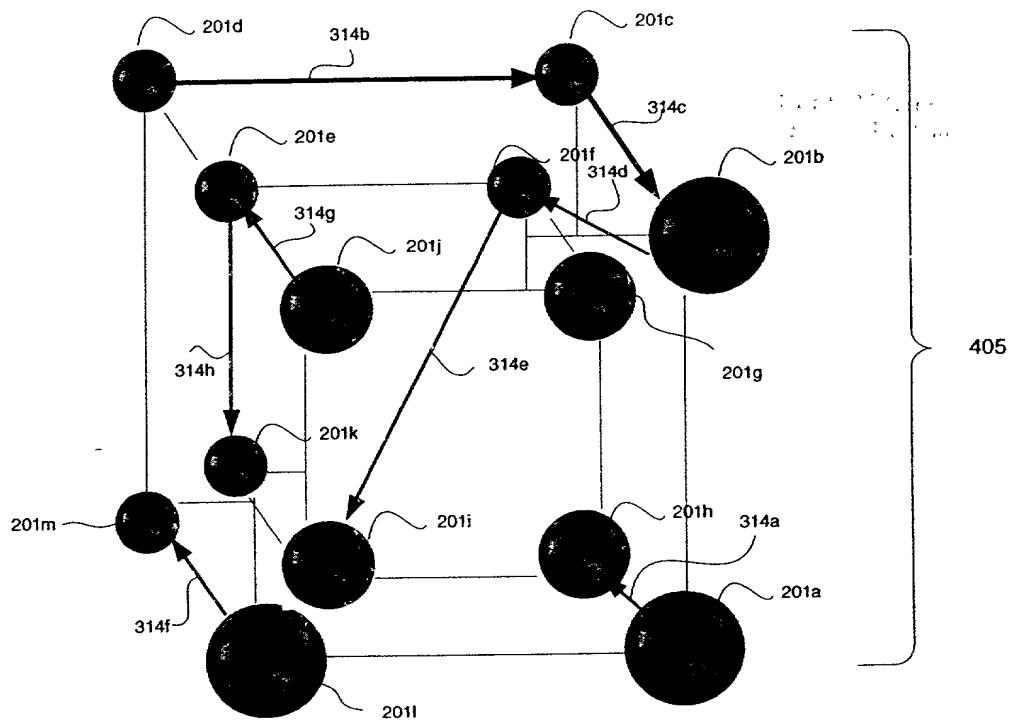


FIG. 4a



[illegible]

FIG. 4b

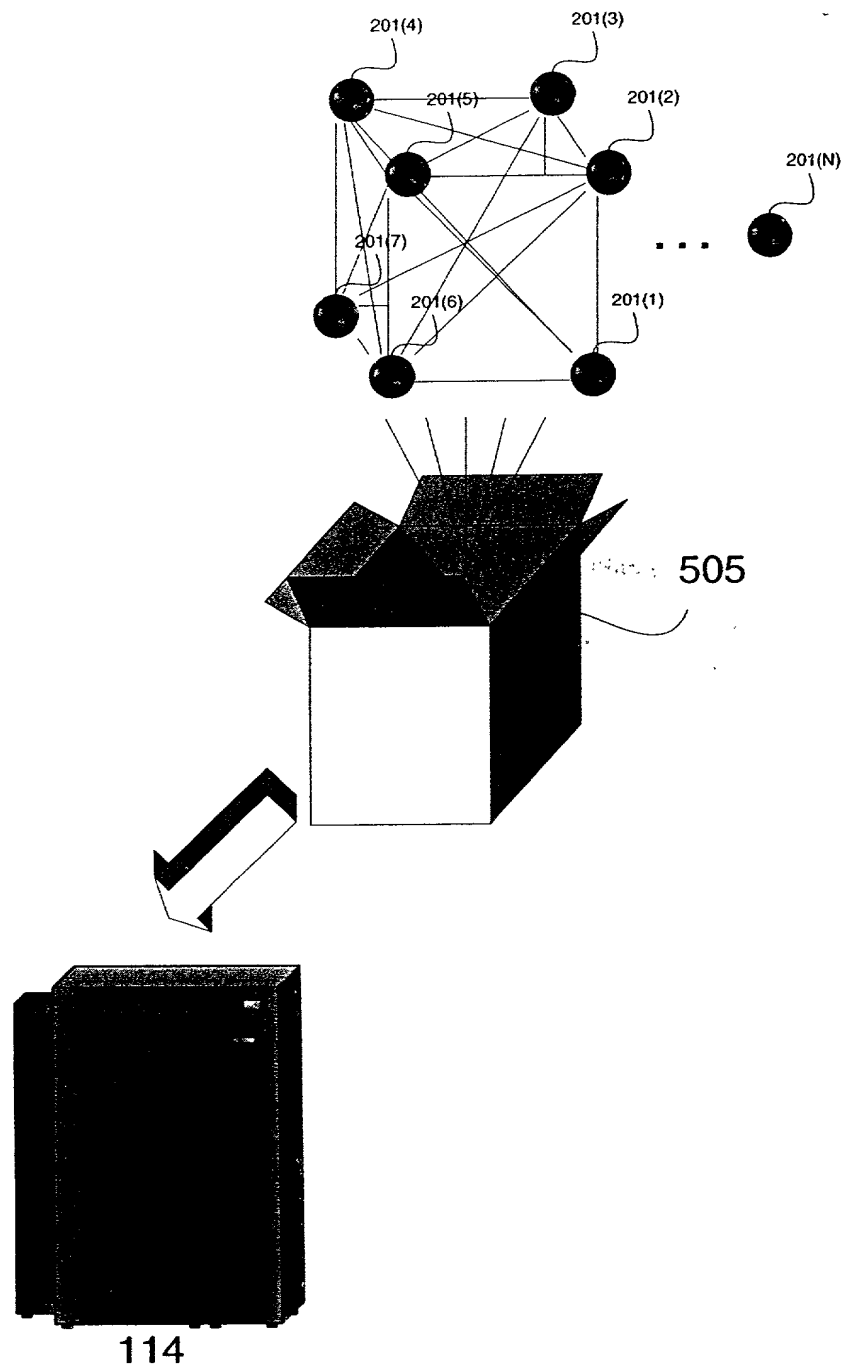


FIG. 5a

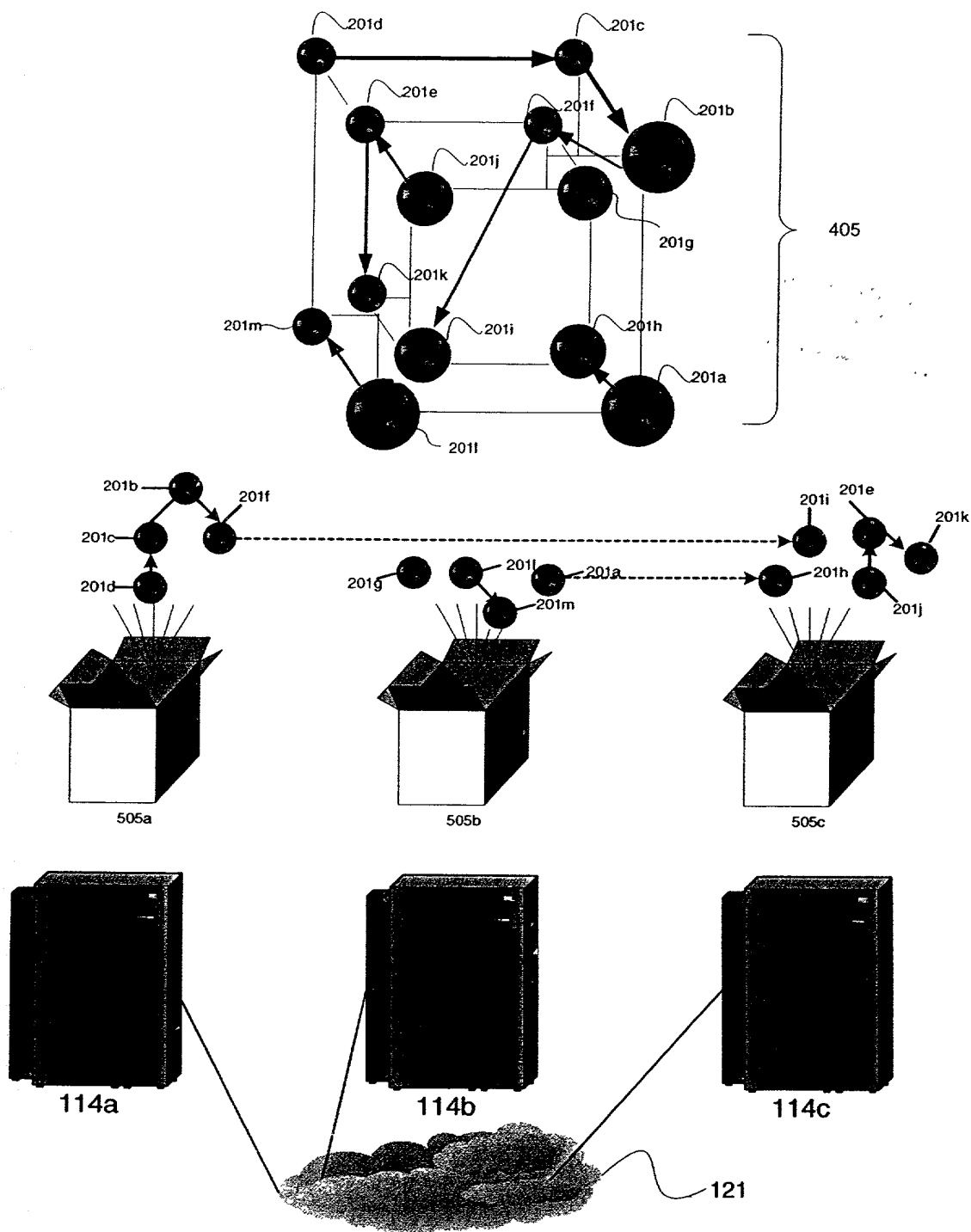


FIG. 5b

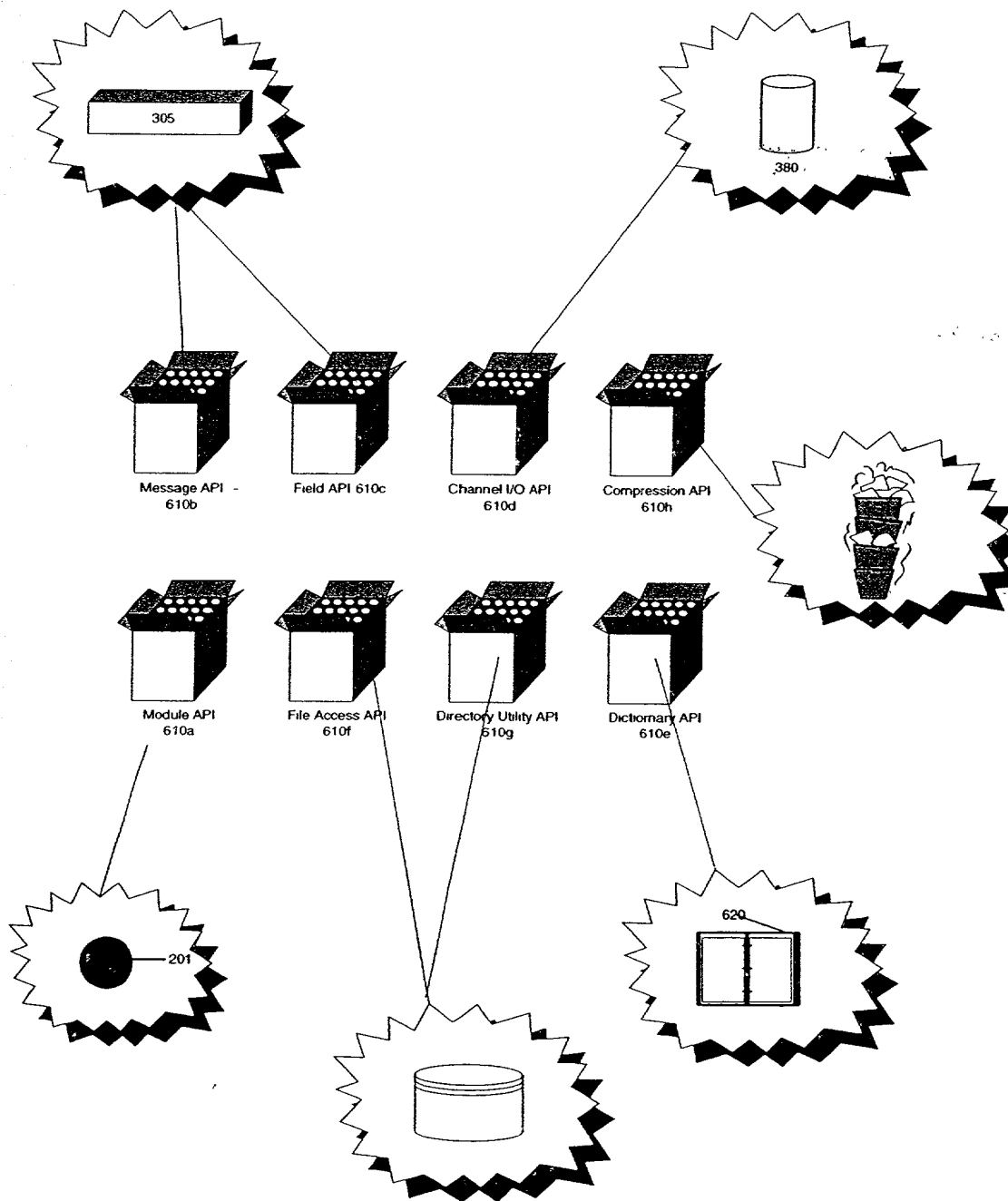


FIG. 6

204050" 9965T001

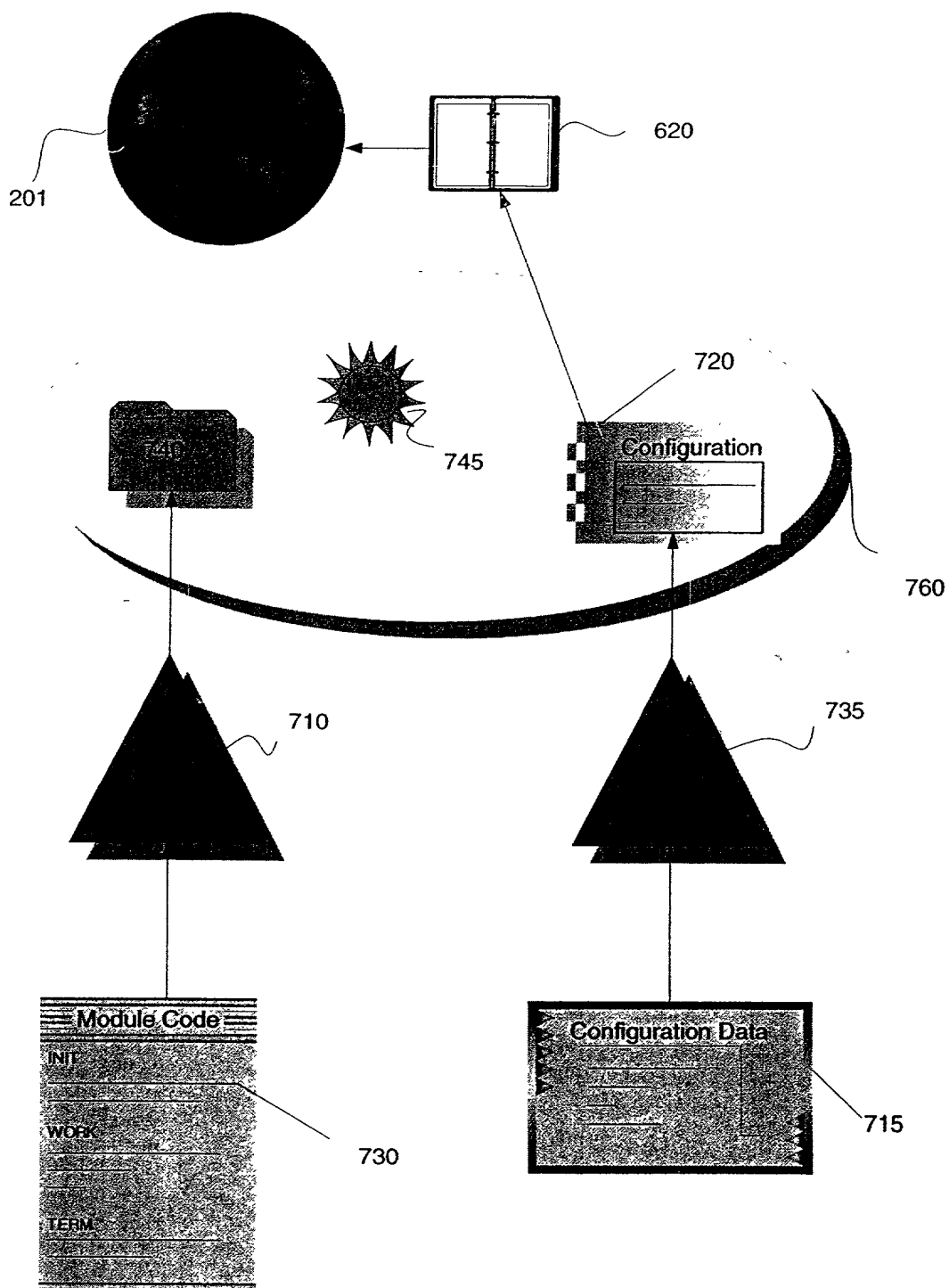


FIG. 7

204760-9955T001

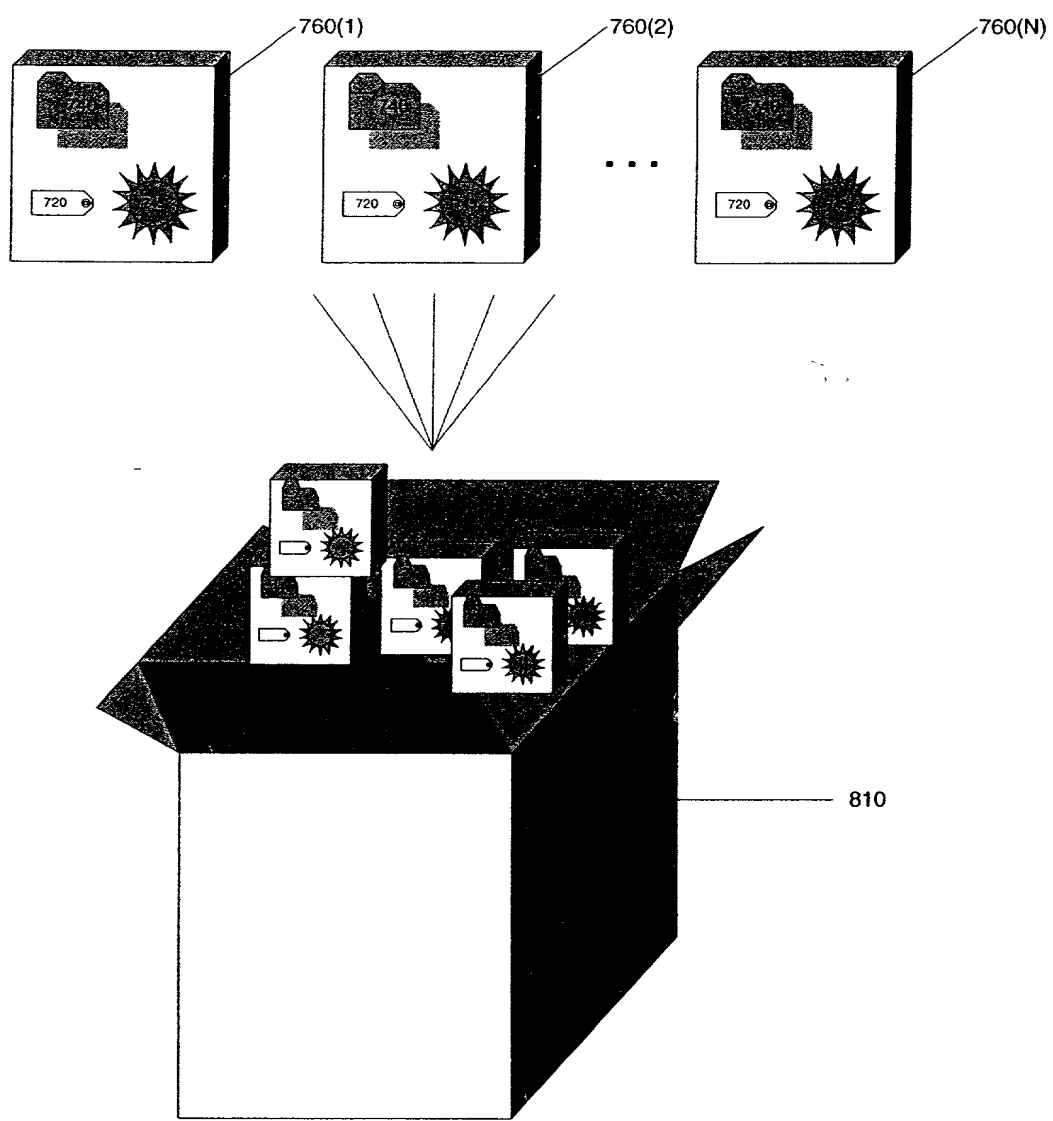


FIG. 8

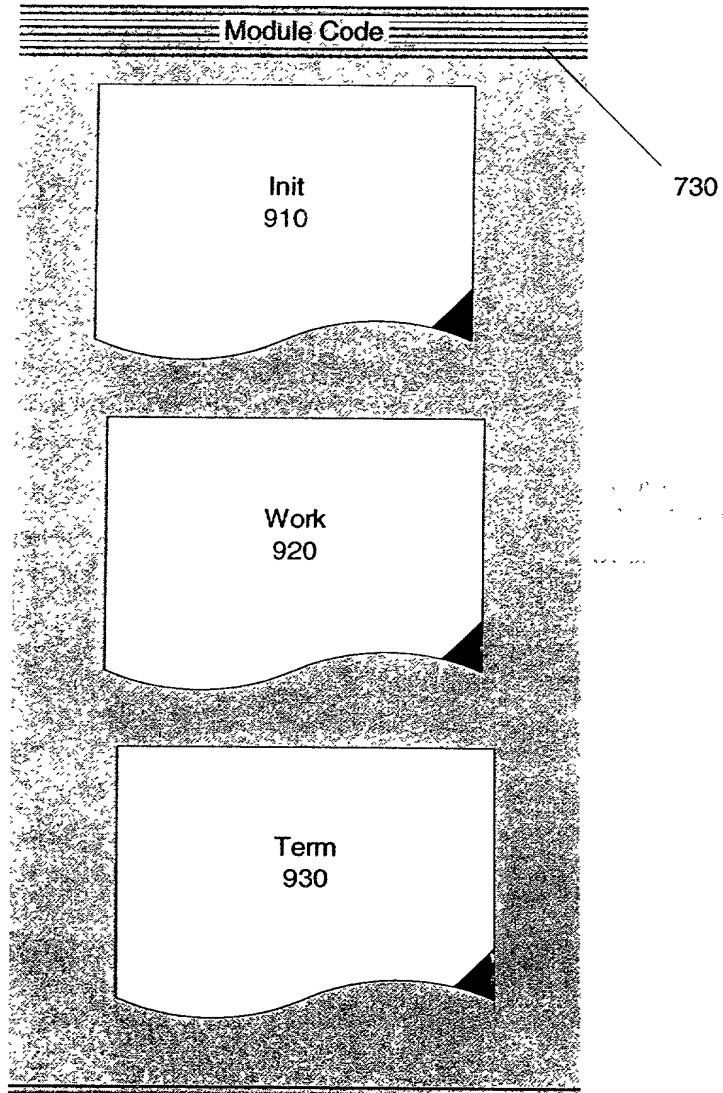


FIG. 9a

20140220 095507

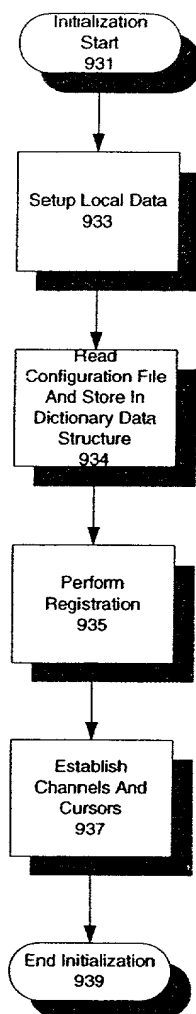


FIG. 9b



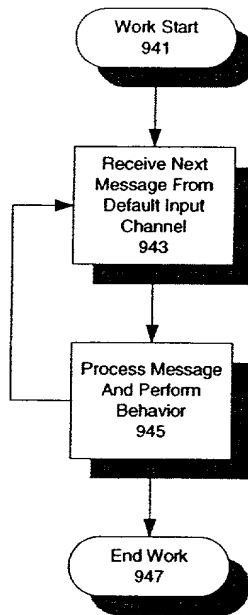


FIG. 9c

20100509 09:55:00

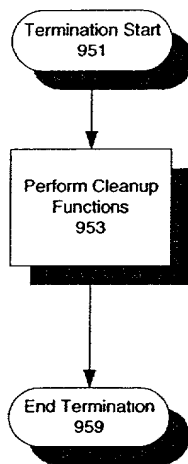


FIG. 9d

305

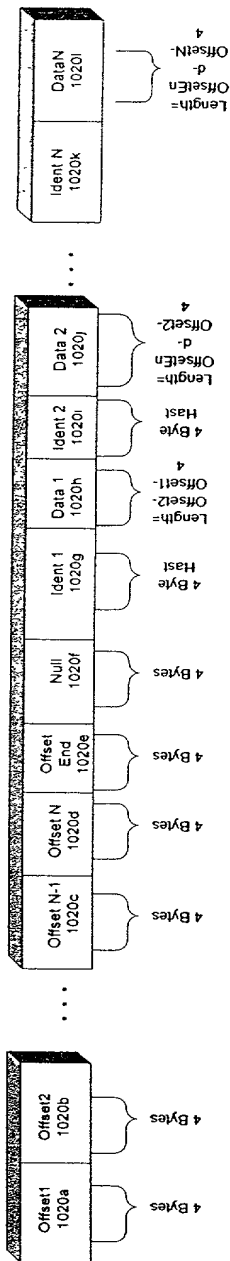
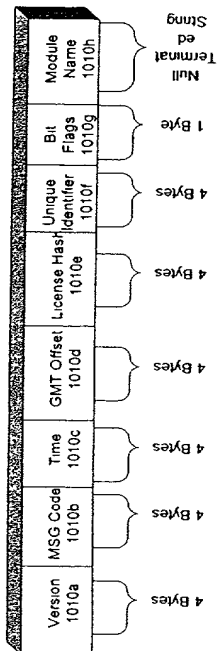
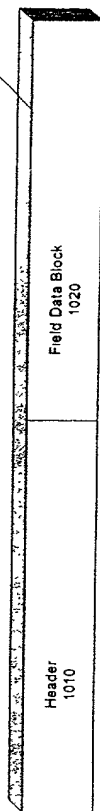
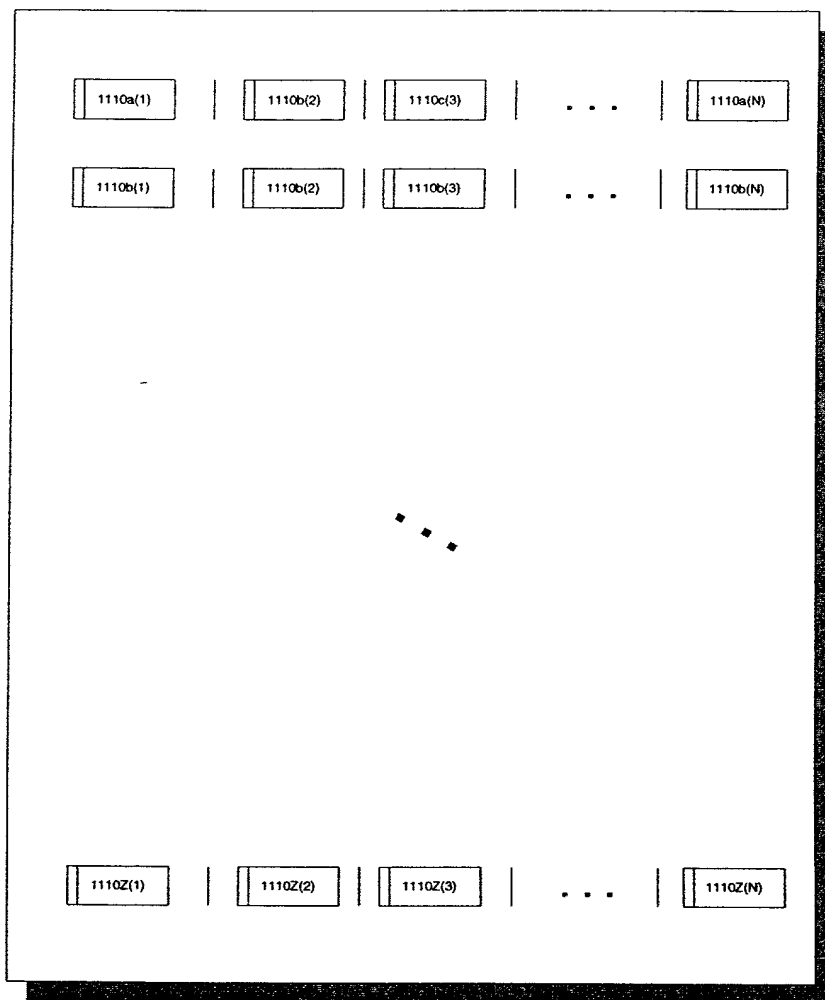


FIG. 10

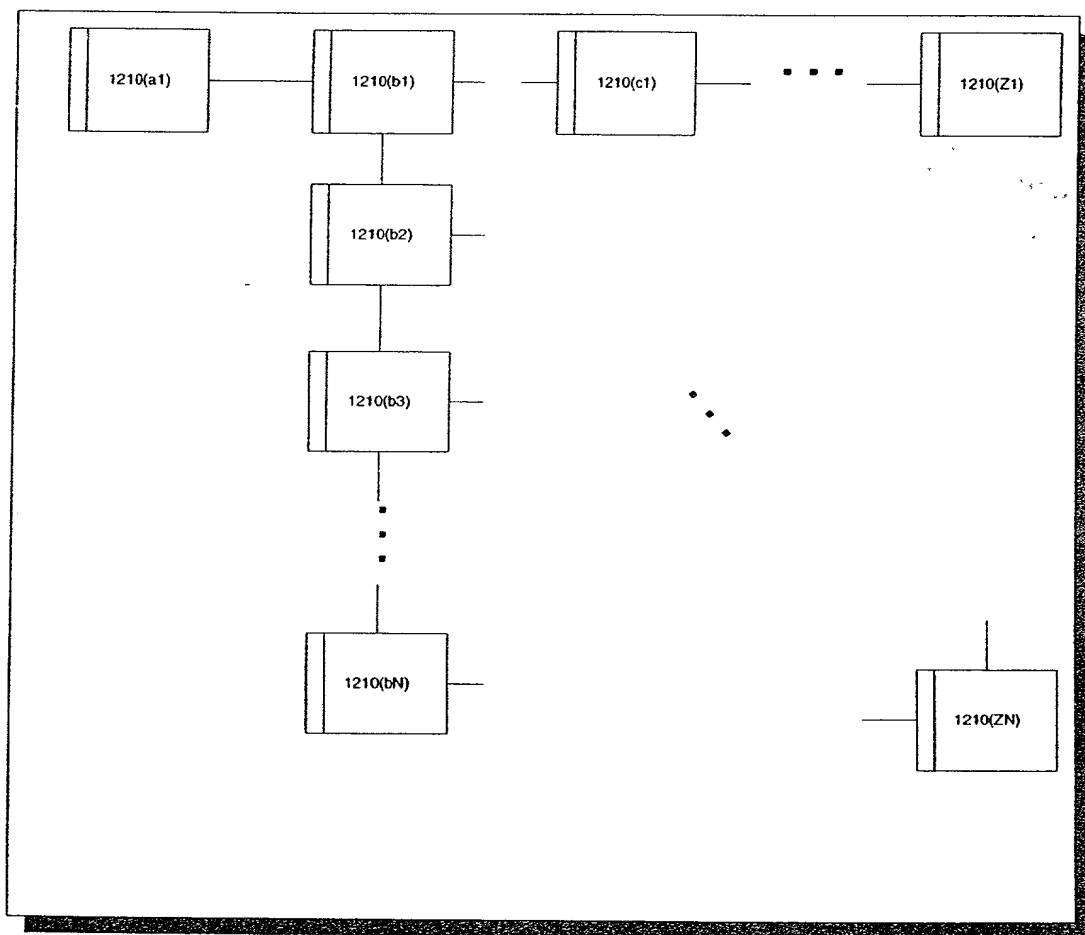
201009051001



720

FIG. 11

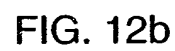
2042ED 9965T001



620

FIG. 12a

620



20140209 09:55:00

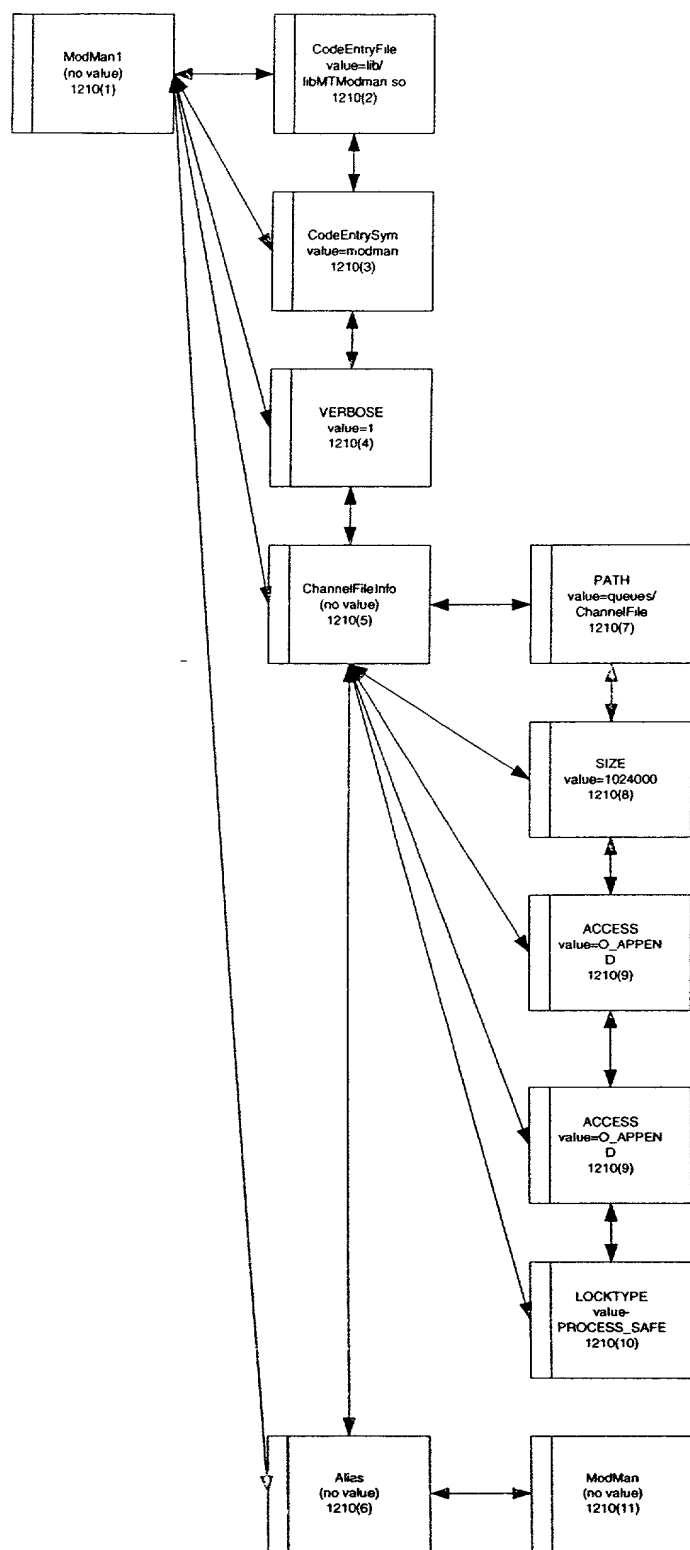


FIG. 12C

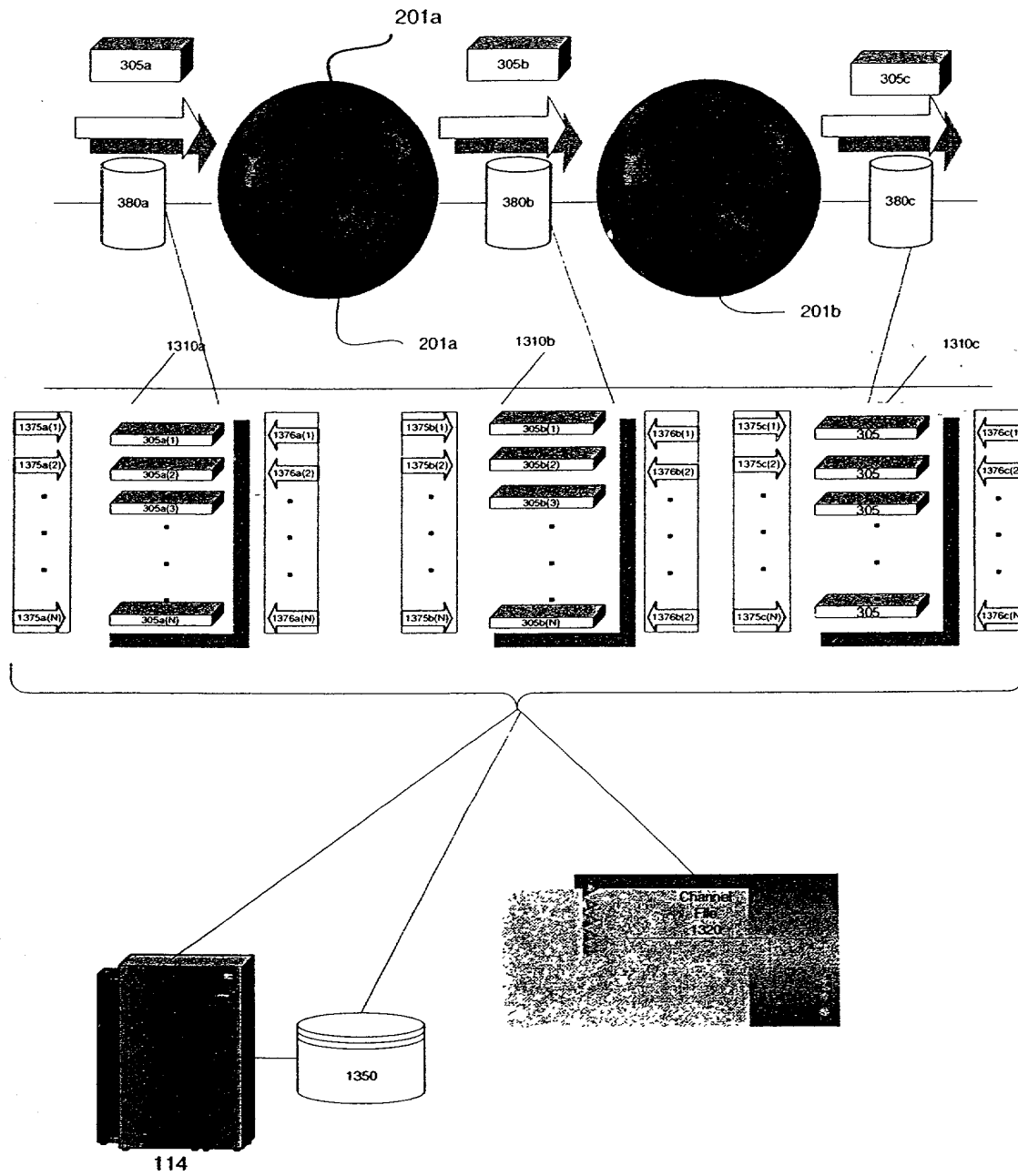


FIG. 13a



2040ED 9365T001

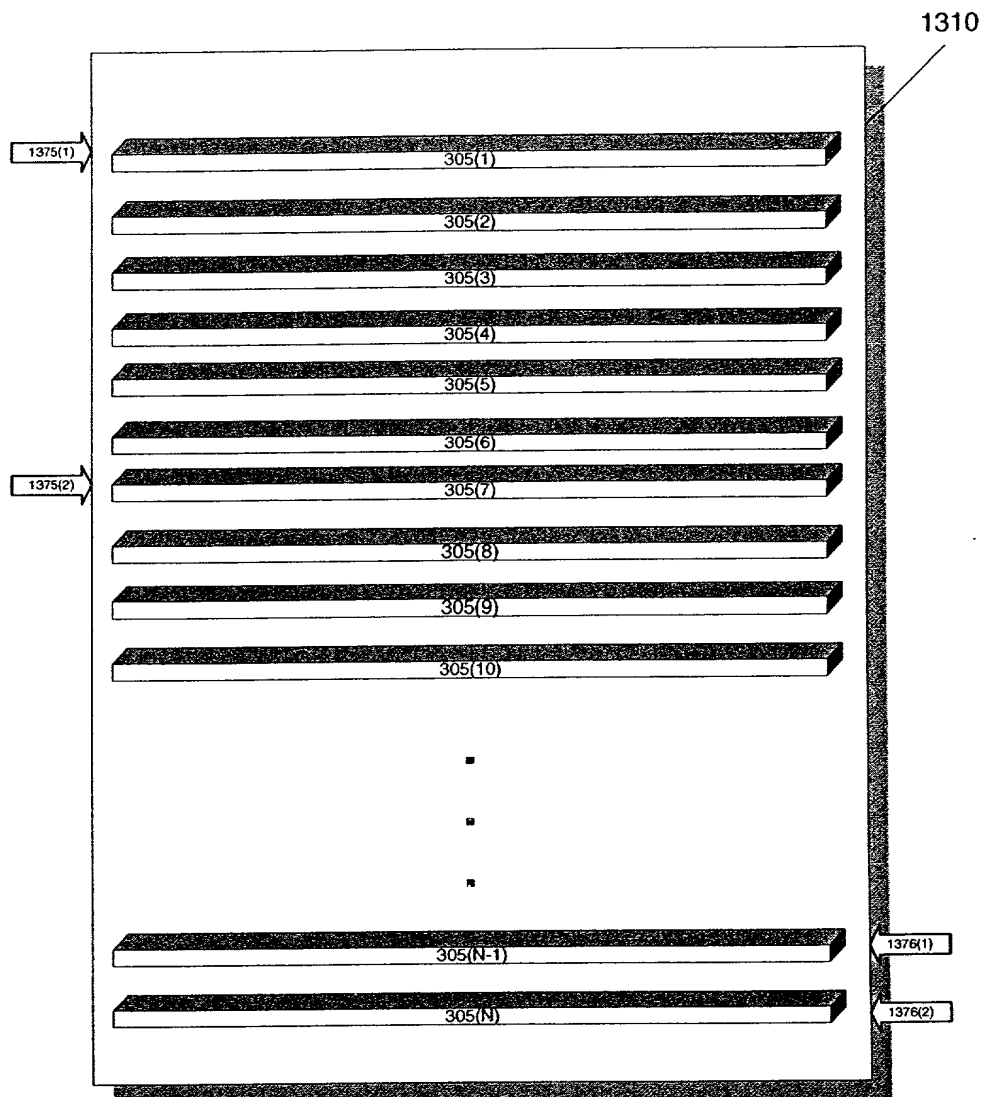


FIG. 13b

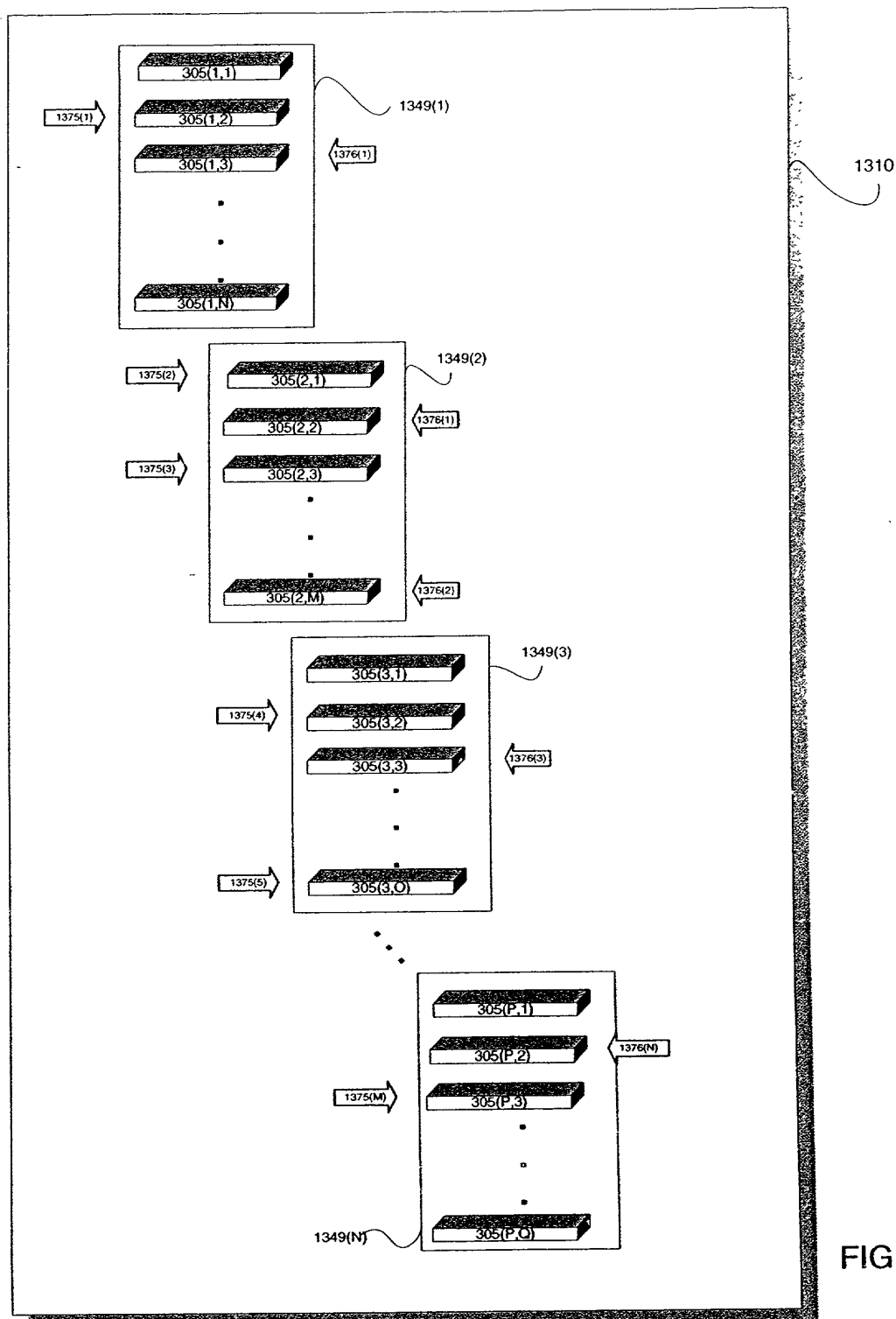


FIG. 13c

20100209 09551001

WriteMsgStruct 1330

Member	Type
buffer 1331	char*
buffersize 1332	long
nextMsg 1333	Chanlo..ChannelFileStruct

FIG. 13d

PageStruct 1340

Member	Type
- self 1341	PageStruct*
pagePath 1342	char*
pageIndex 1343	PageIndexStruct*
object 1344	MemHandle
pageData 1345	char*
pageNumber 1346	long
memType 1347	DATA_Q_MEM_TYPE

FIG. 13e

PageIndexStruct 1350

Member	Type
nextReadPosition 1351	unsigned long
nextWritePosition 1352	unsigned long
pagesize 1353	long
pageFullState 1354	long

FIG. 13f

RecordHeaderStruct 1360

Member	Type
commitFlag 1361	char
sequenceNumber 1362	unsigned long
realBuffersize 1363	long
userBuffersize 1364	long

FIG. 13g

MasterPageStruct 1370

Member	Type
self 1371	MaSterPageStruct*
pagePath 1372	char*
_object 1373	MemHandle
masterPageIndex 1374	masterPageIndexStruct*
wlock 1375	LOCK_NODE_PTR
rlock 1376	LOCK_NODE_PTR
readPage 1377	PageStruct*
wntePage 1378	PageStruct*
memType 1379	long
maxPages 1379a	long
pageSize 1379b	long
lockState 1379c	LOCK_STATE

FIG. 13h

MasterPageIndexStruct  
1380

Member	Type
firstPageNumber 1381	long
lastPageNumber 1382	long
pagesize 1383	long
maxPages 1384	long
readPageState 1385	READ_PAGE_STATE
writePageState 1386	WRITE_PAGE_STATE
recordsWritten 1387	unsigned long
recordsRead 1388	unsigned long

FIG. 13i

2040000-9365700

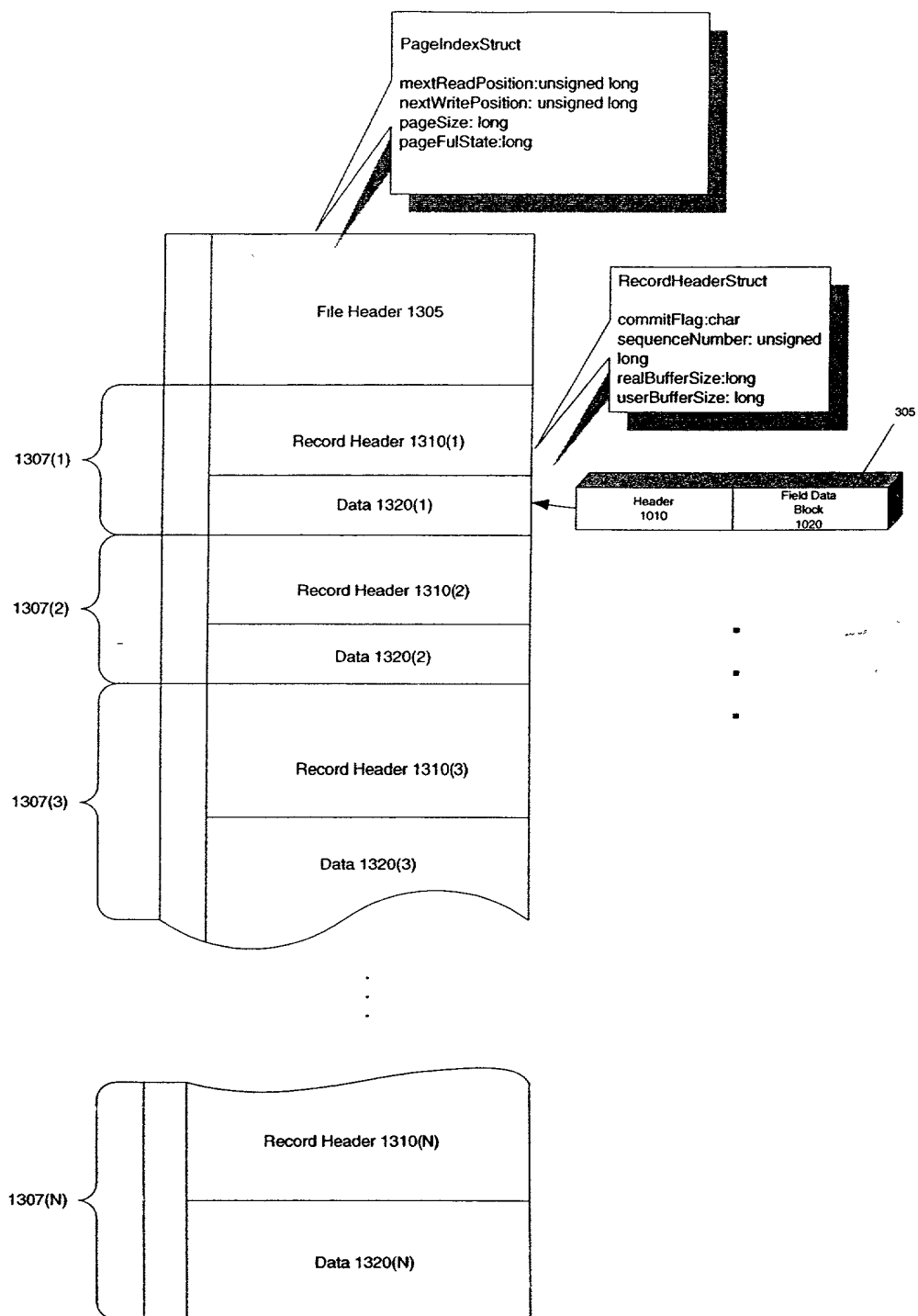


FIG. 13j

ChanloStruct 1430

Member	Type
self 1431	ChanloStruct*
dictionary 1433	DictStruct*
ChanFileInfo 1435	Chanlo..ChannelFileStruct
message 1437	MsgHandle
channels 1438	Vector*
translist 1439	Vector*

FIG. 14a

ChannelFileStruct 1440

Member	Type
path 1441	char*
access 1443	ChannelFileAccessType
size 1445	long

FIG. 14b

ChannelObjStruct 1450

Member	Type
ChannelName 1451	char*
channelId 1453	DataQHandle
type 1455	MCPChannelType

FIG. 14c

ChannelFileStruct 1460

Member	Type
handle 1461	void*
header 1463	char*
currentObj 1465	void*
lastObj 1467	void*
access 1468	ChannelFileAccessType
lock 1469	LOCK_NODE_PTR

FIG. 14d

ChannelFileHdrStruct  
1470

Member	Type
version 1471	long
numRecords 1473	long
checkSum 1475	long

FIG. 14e

ChannelFileObjectStruct  
1480

Member	Type
chanInfo 1481	ChanInfoStruct
ChannelName[] 1483	char
ChannelPath[] 1485	char
ChannelOwner[] 1487	char
ChannelPermAuth[] 1489	char

FIG. 14f

204060-99651001

ChanInfoStruct 1480

Member	Type
maxPageSize 1491	Long
maxPages 1493	long
lockState 1495	LOCK_STATE
memType 1497	Data_Q_MEM_TYPE

FIG. 14g



204060-99551001

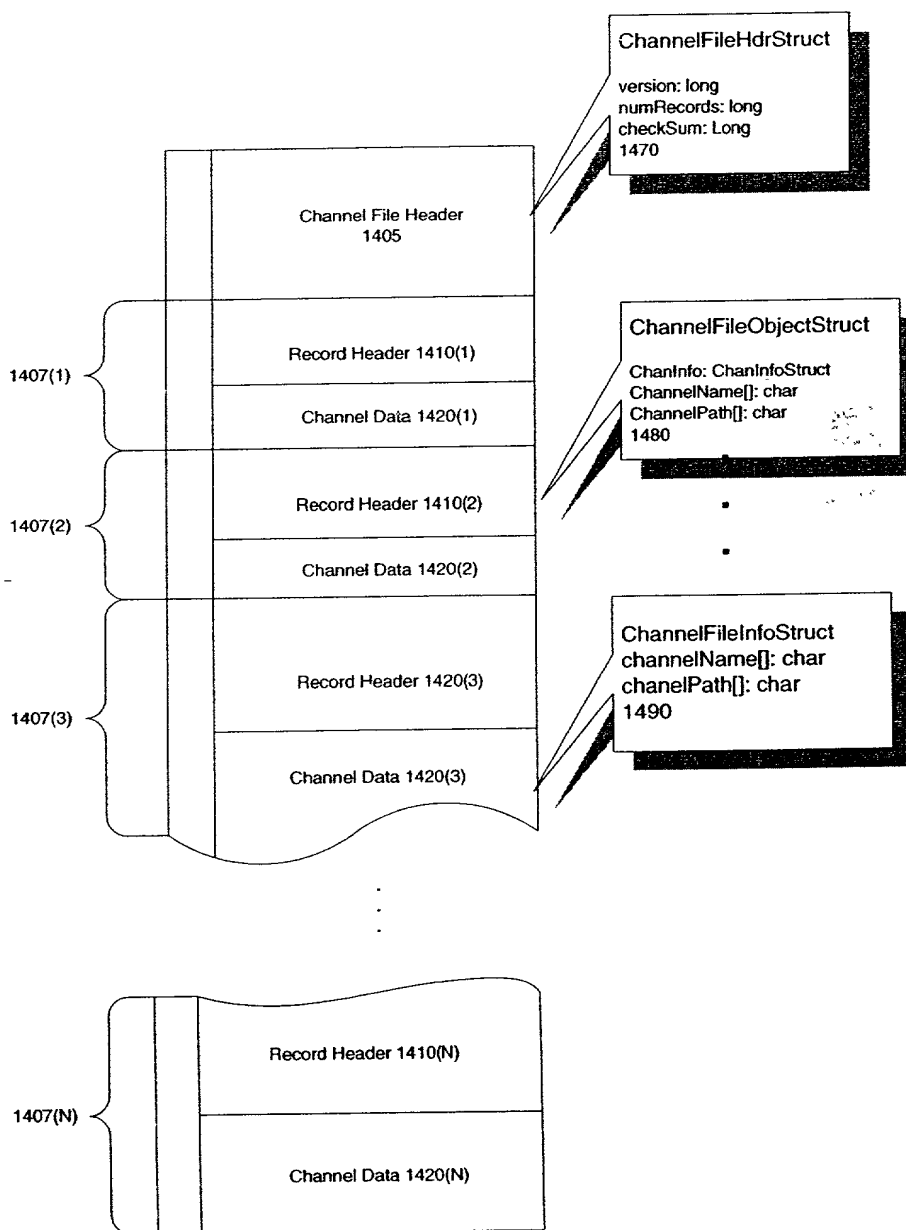


FIG. 14h

2015055-030402

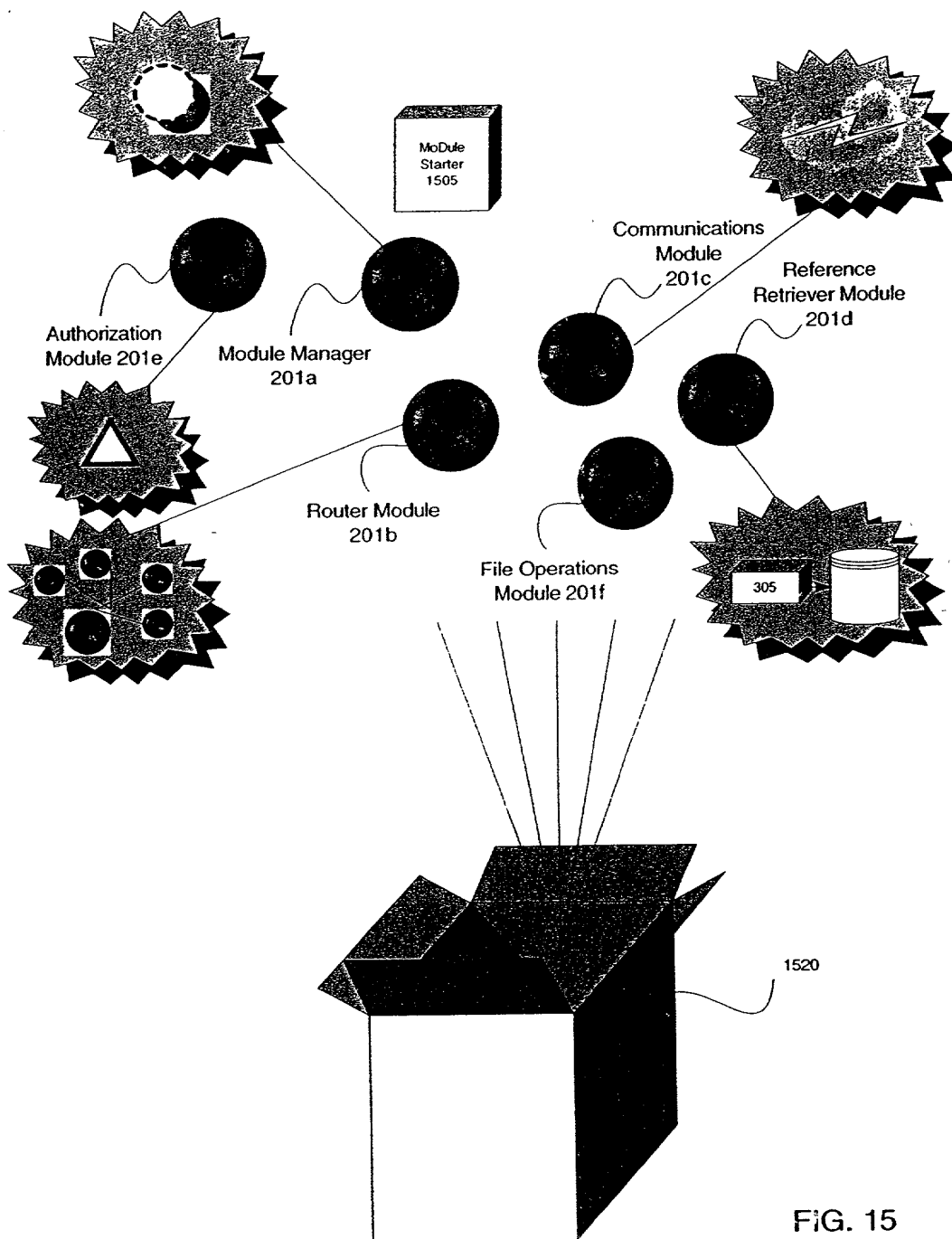
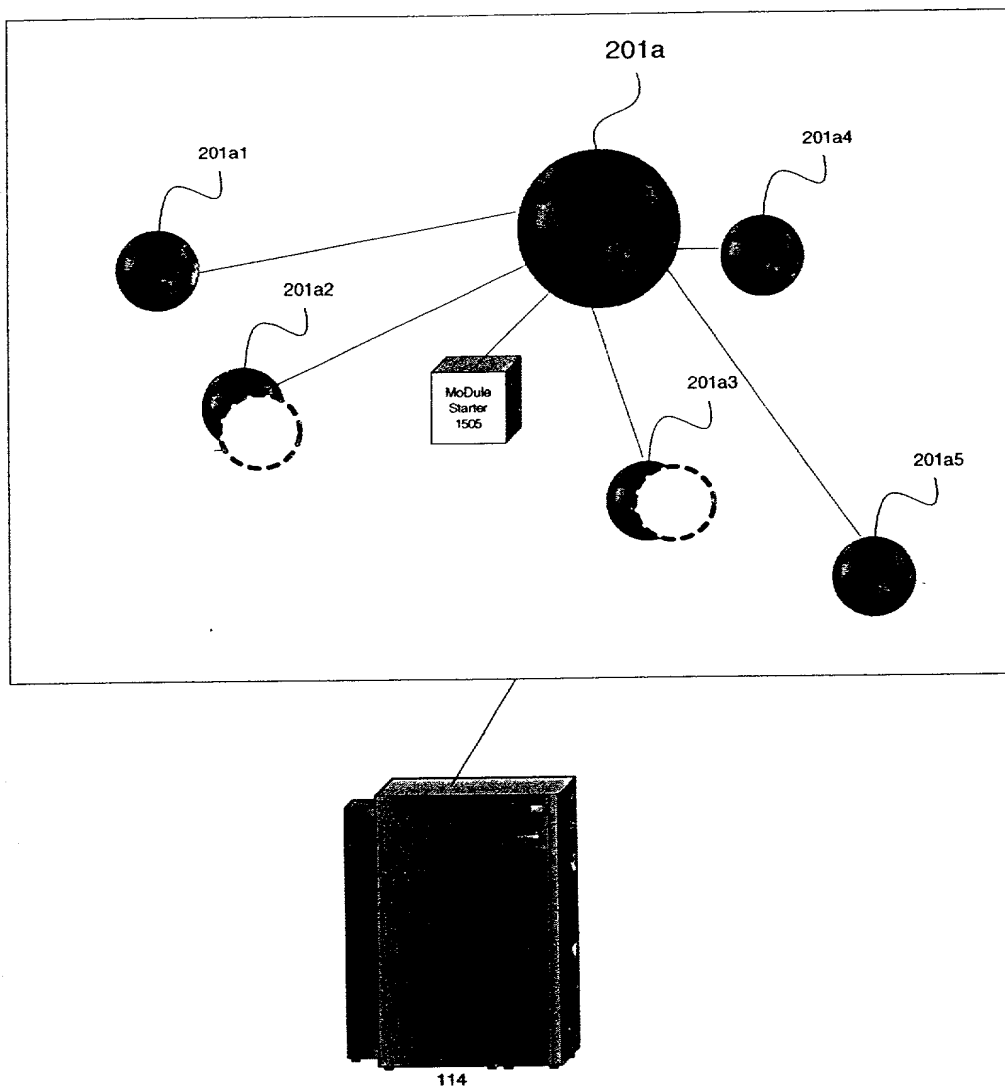


FIG. 15



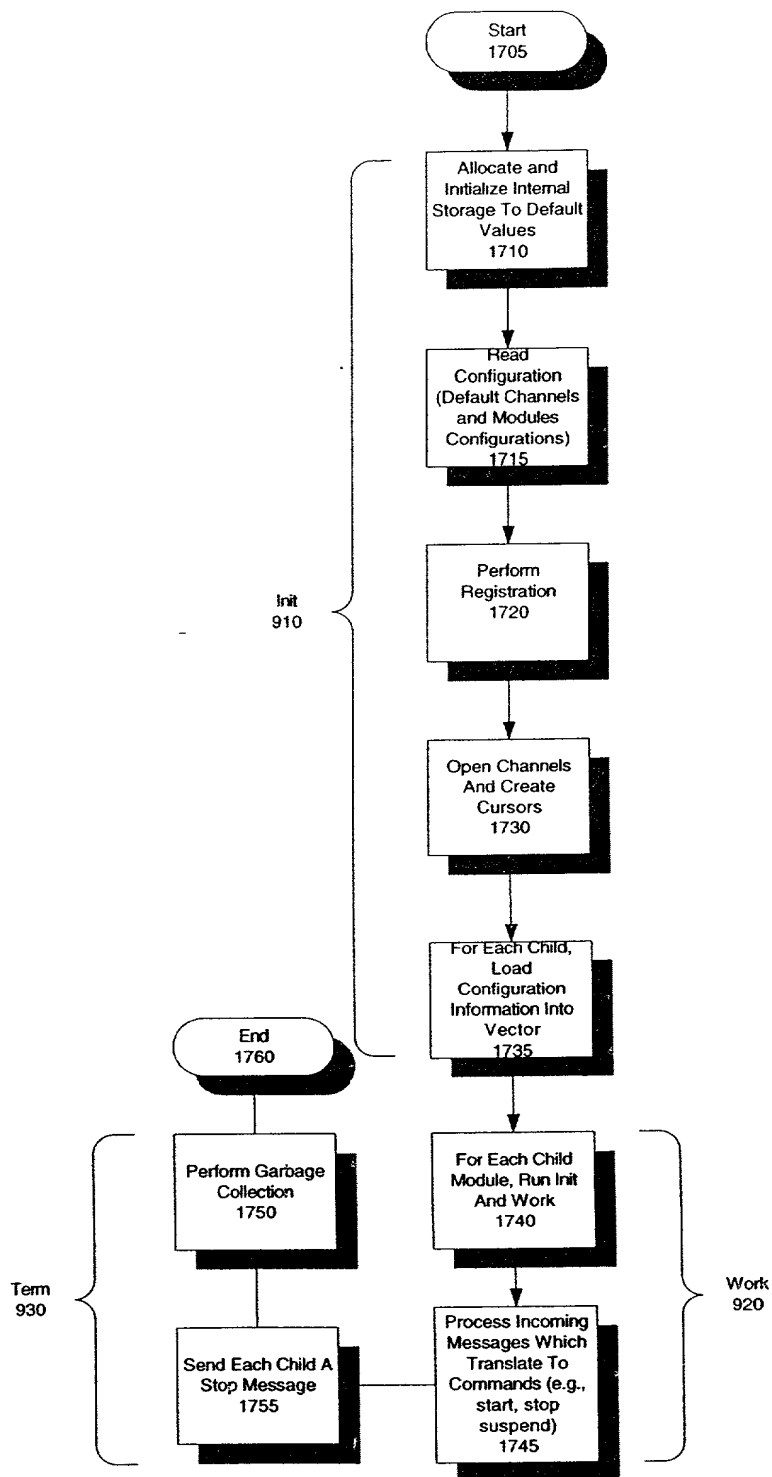


FIG. 17

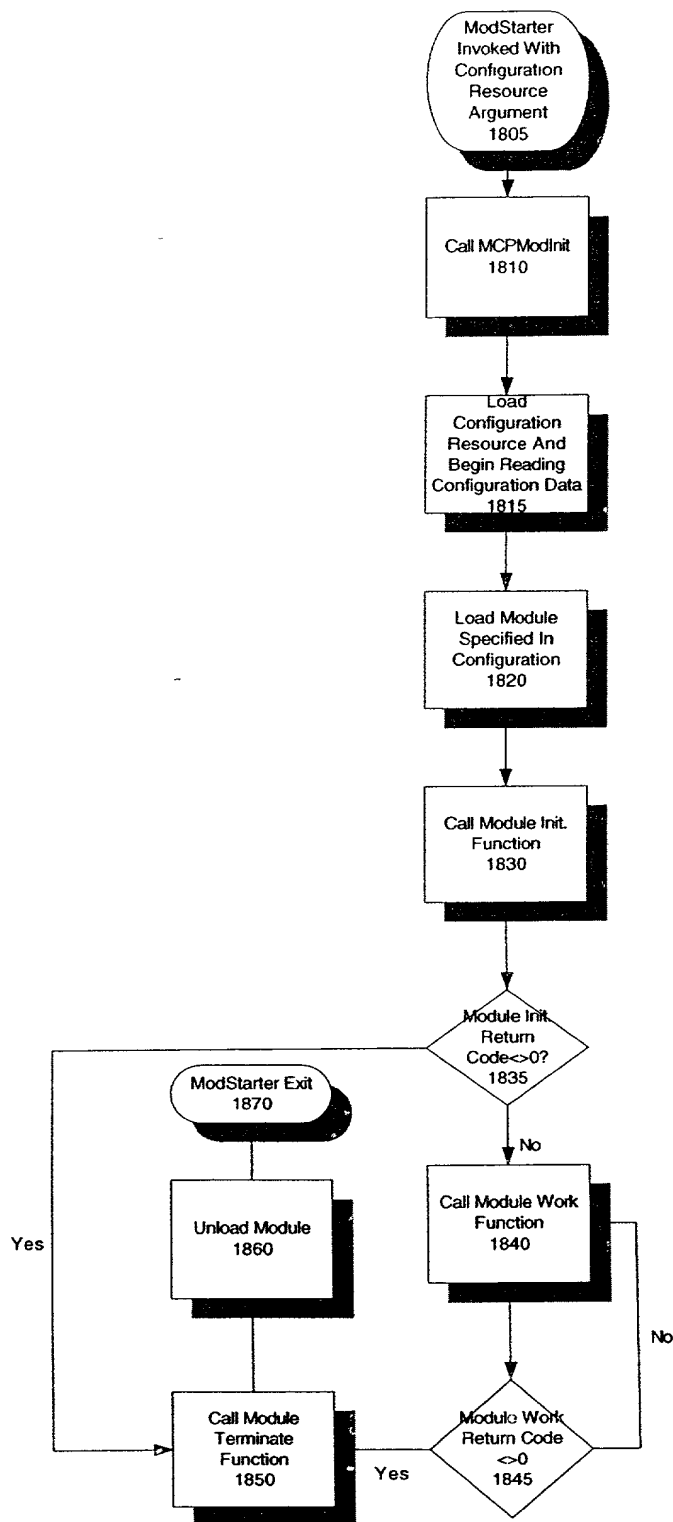
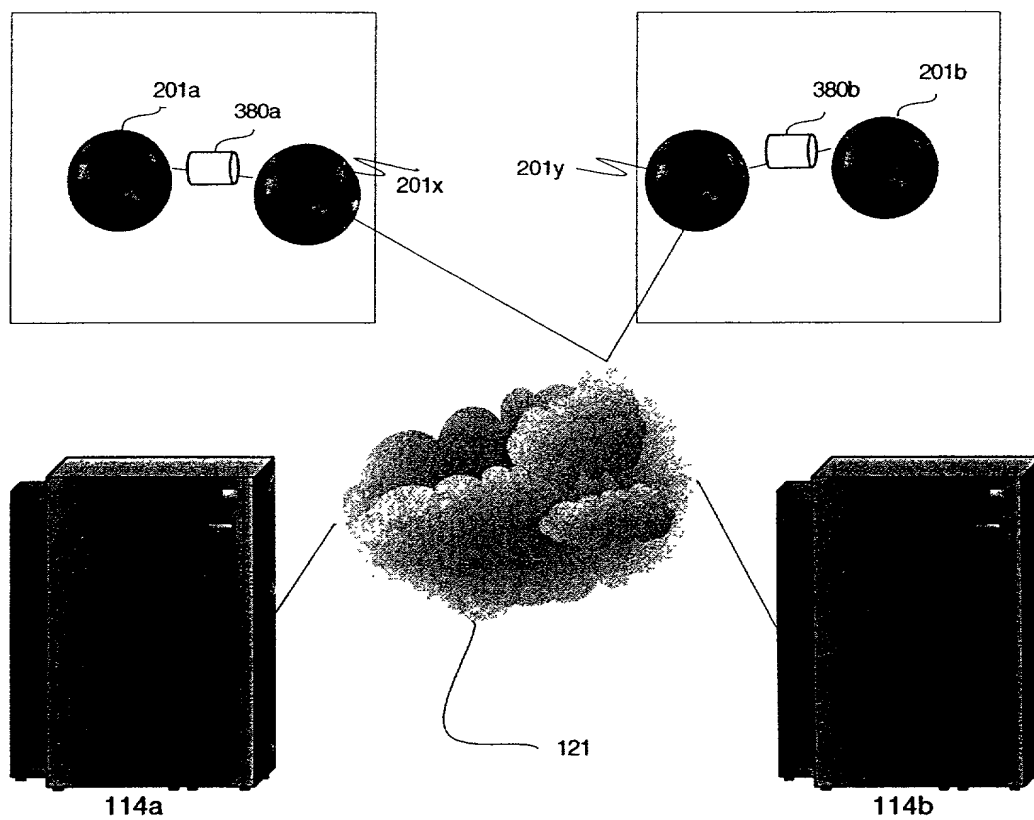


FIG. 18

The diagram illustrates a network structure. A central node, labeled 201x, is connected to three other nodes: 201a, 201b, and 201c. Additionally, a fourth node, labeled 201d, is connected to node 201x. The connections are represented by arrows passing through small cylindrical components. Node 201d is on the left, node 201x is in the center, node 201a is at the top right, node 201b is on the right, and node 201c is at the bottom right.

FIG. 19

Diagram illustrating a second embodiment of the device. It shows two spherical electrodes, 201a and 201b, connected by a cylindrical component, 380a.



1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279</
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The diagram illustrates a network topology. It features two central nodes, 201x and 201y, represented by large black circles. Node 201x is connected to three peripheral nodes: 201a, 201b, and 201c, which are also represented by black circles. These connections are made via links 380a, 380b, and 380c, respectively, which are depicted as small white cylinders. Similarly, node 201y is connected to three peripheral nodes: 201a1, 201a2, and 201a3, also represented by black circles. These connections are made via links 380a1, 380a2, and 380a3, respectively, which are also depicted as small white cylinders. Additionally, there is a direct connection between nodes 201x and 201y via link 380x, which is a small white cylinder. A wavy line labeled 201x is also shown near node 201x, and a wavy line labeled 201y is shown near node 201y.

FIG. 21



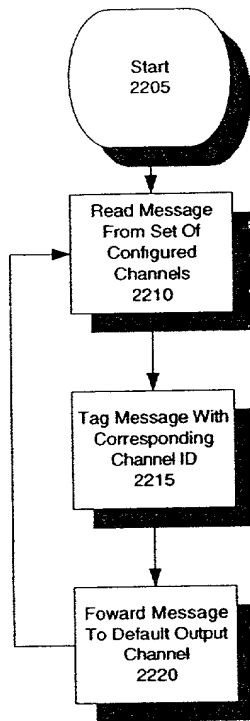


FIG. 22

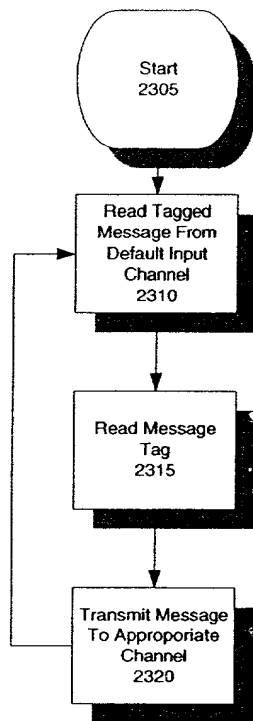


FIG. 23



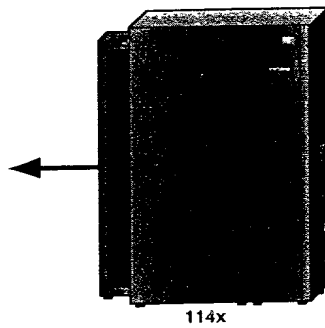
505(1)



505(2)



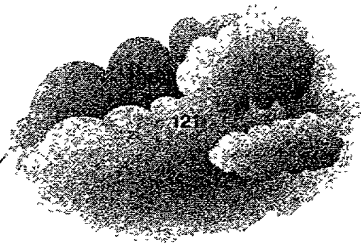
505(N)



114x



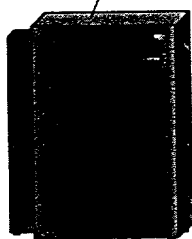
201x



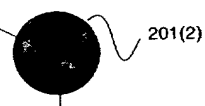
121



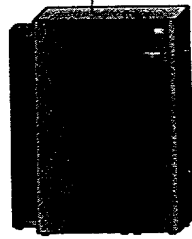
201(1)



114(1)



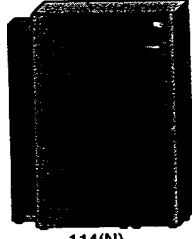
201(2)



114(2)



201(N)



114(N)



FIG. 24

201506-0040

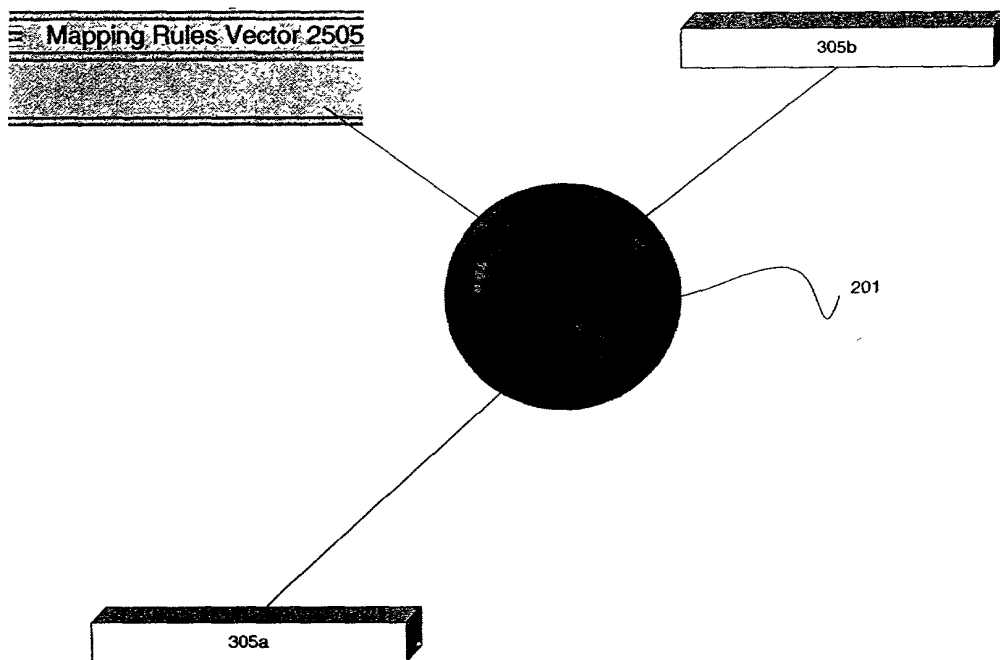


FIG. 25

204000 335500

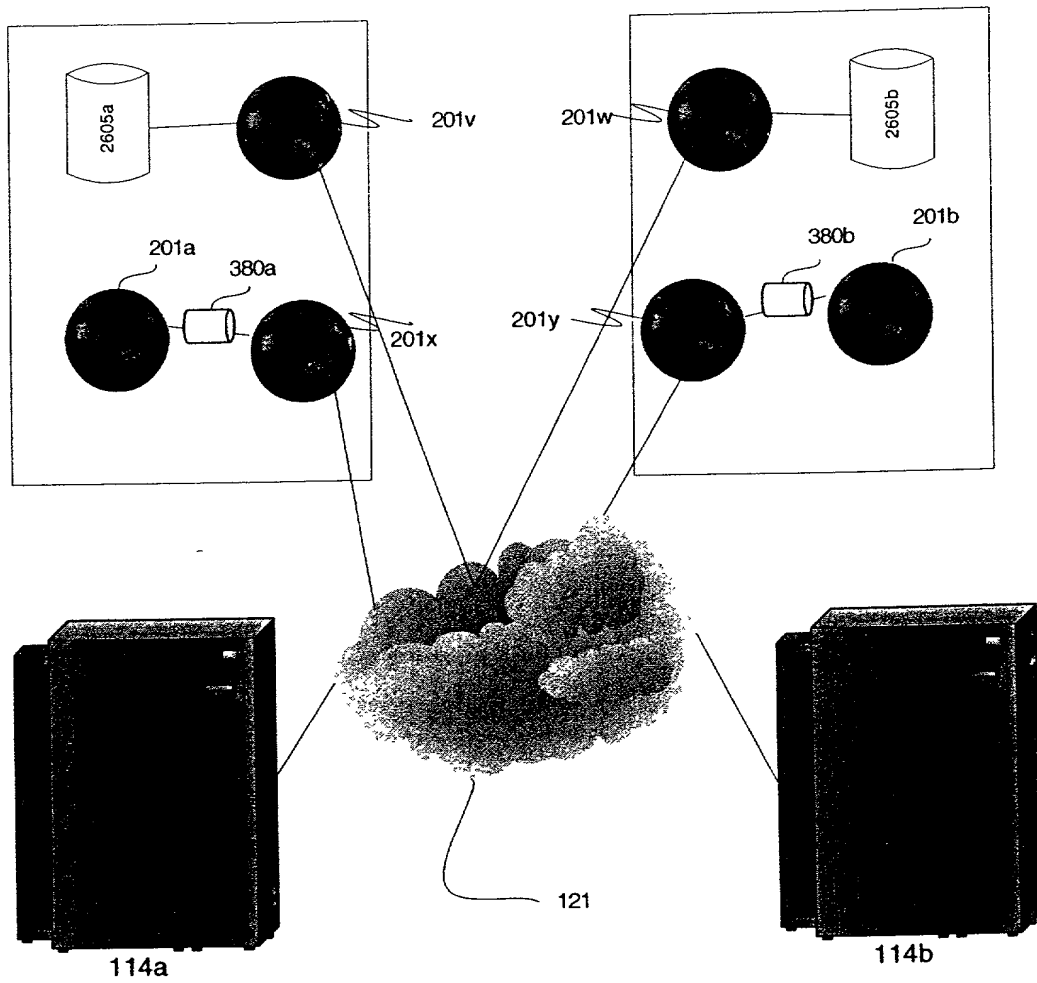


FIG. 26

204000-99651001

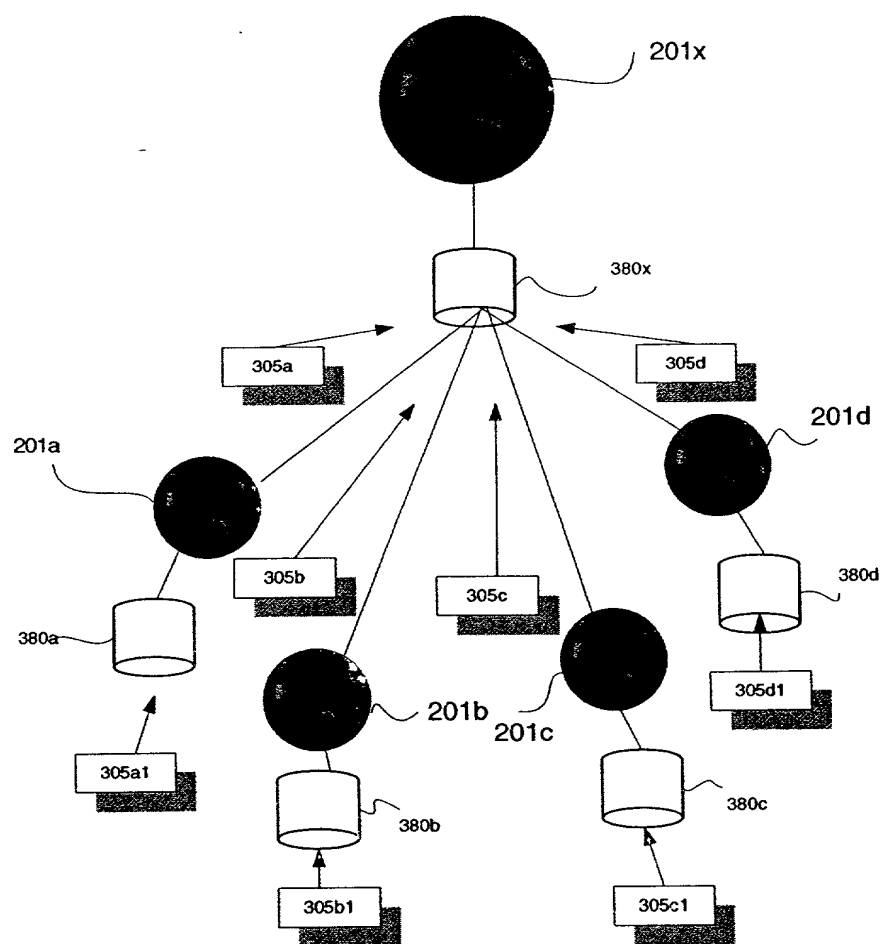


FIG. 27

2015966-03402

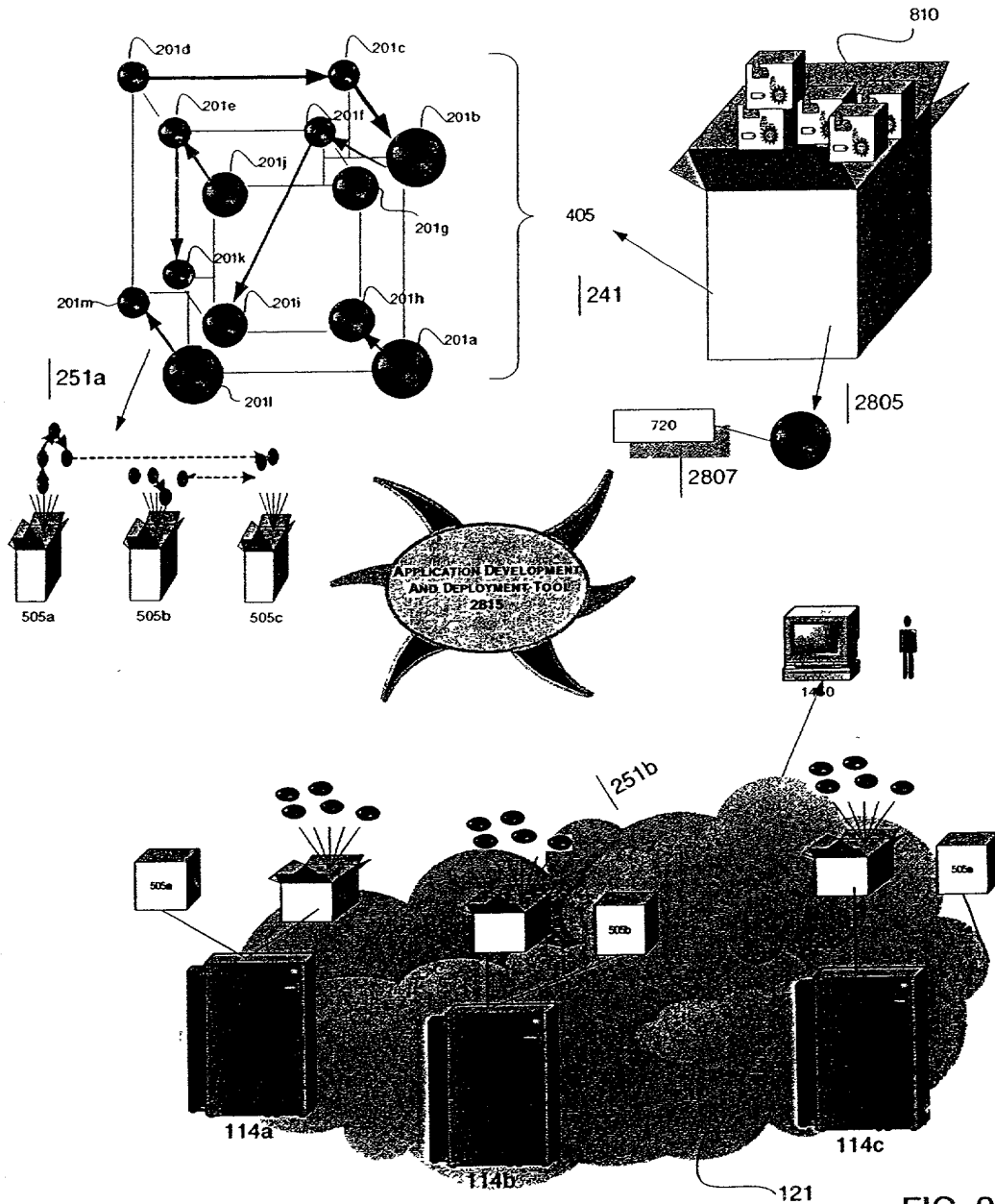


FIG. 28

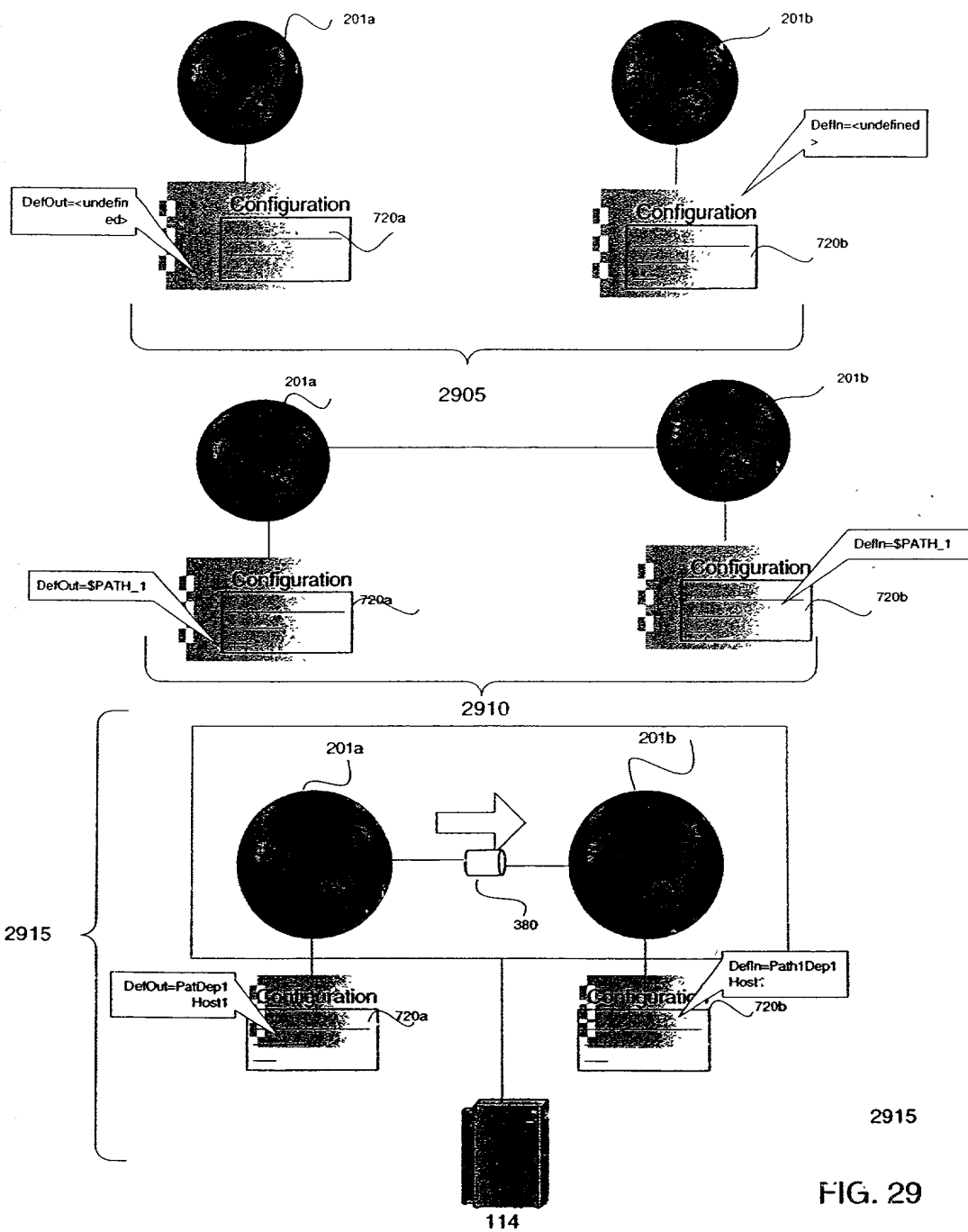


FIG. 29



204020-99557001

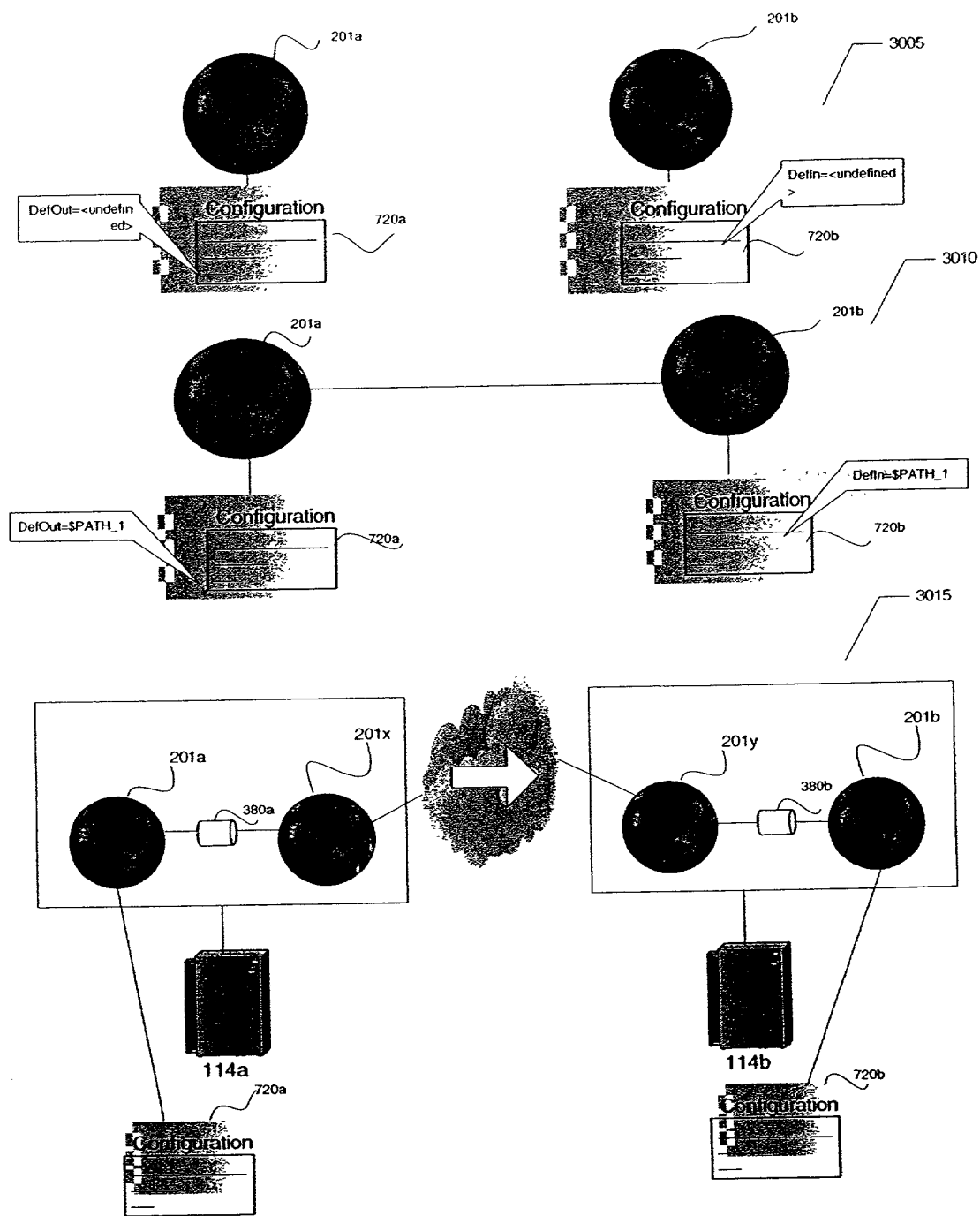


FIG. 30

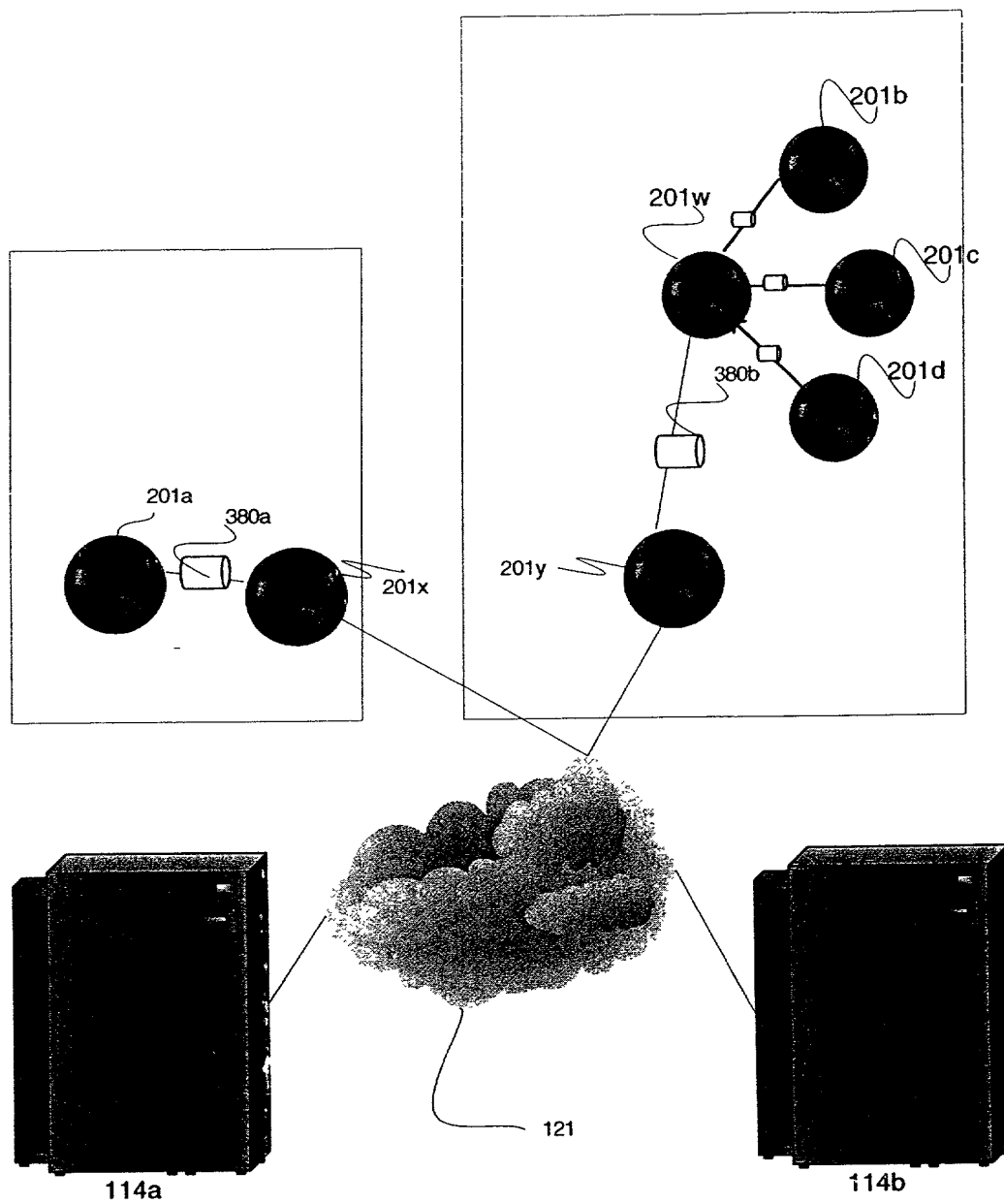


FIG. 31

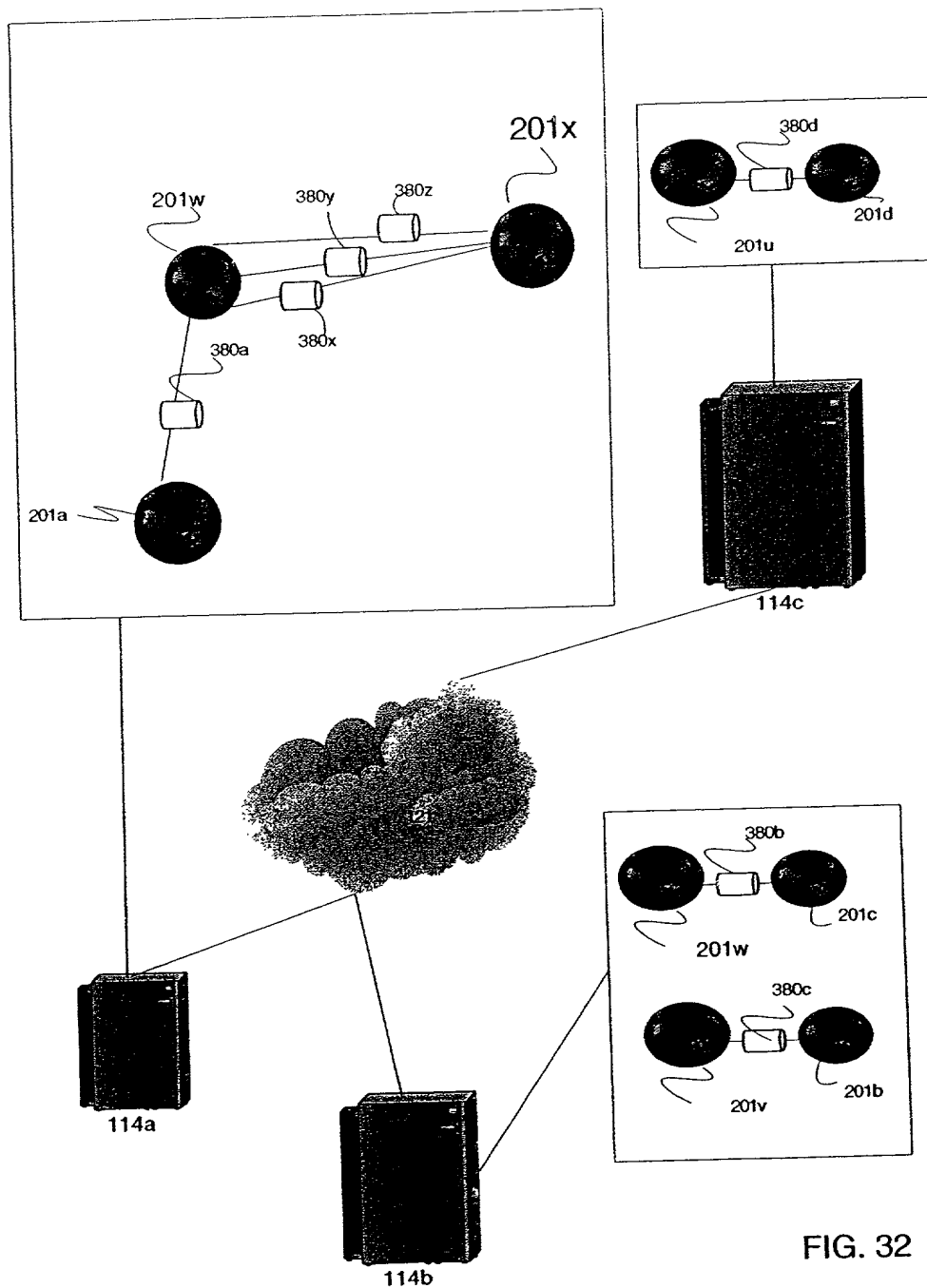


FIG. 32

FIG. 33

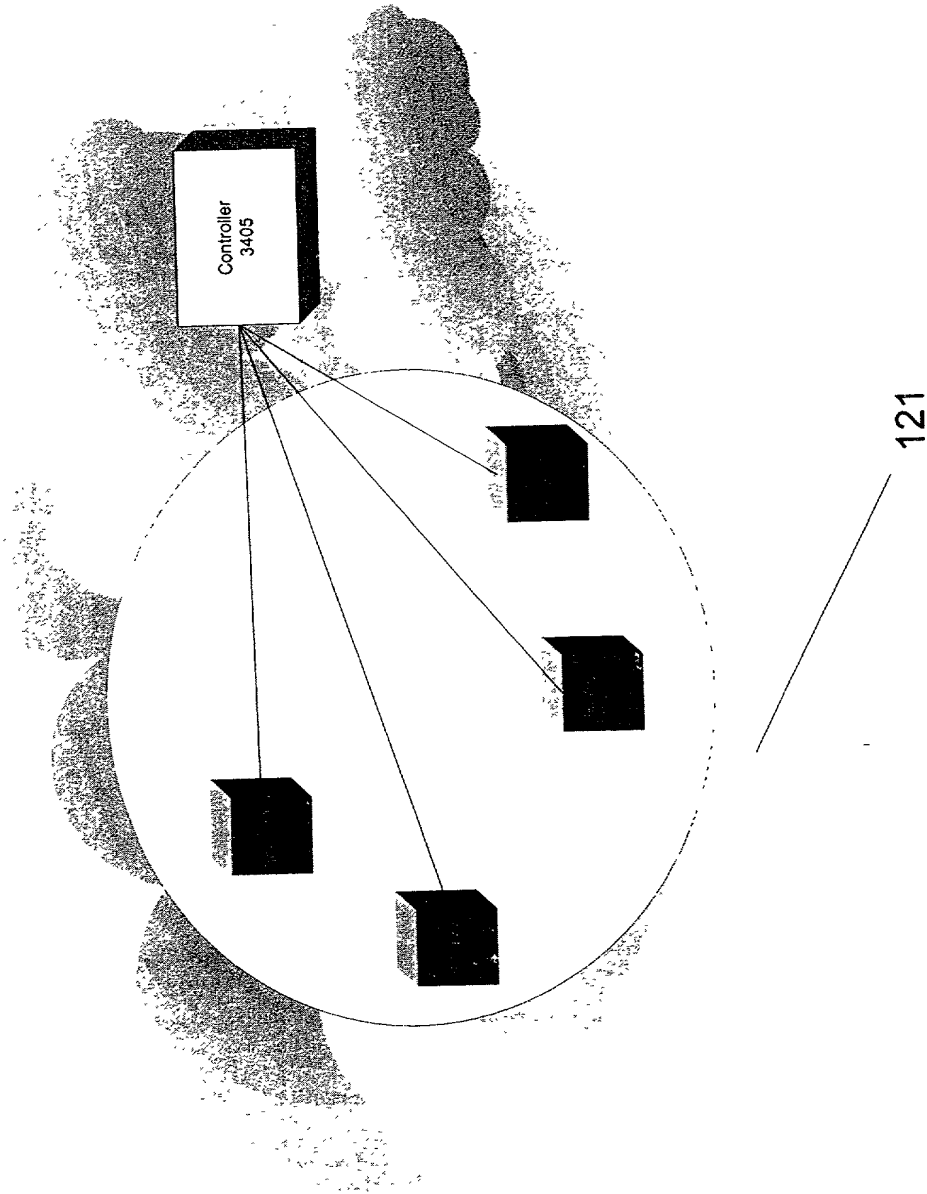


FIG. 34



204000-995500

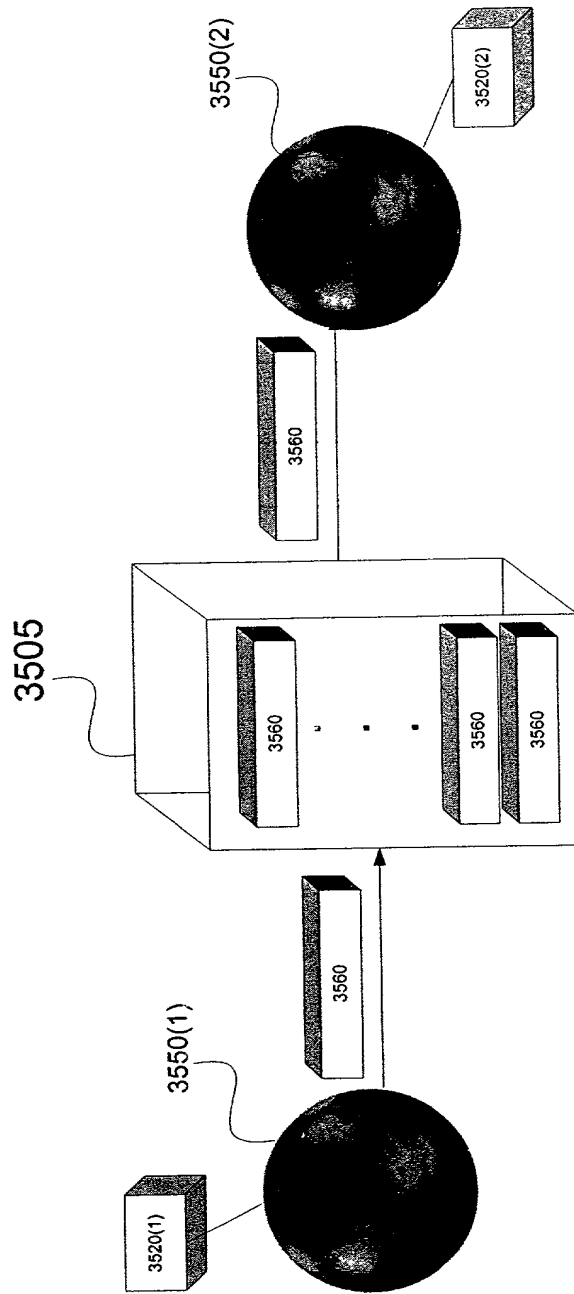


FIG. 36

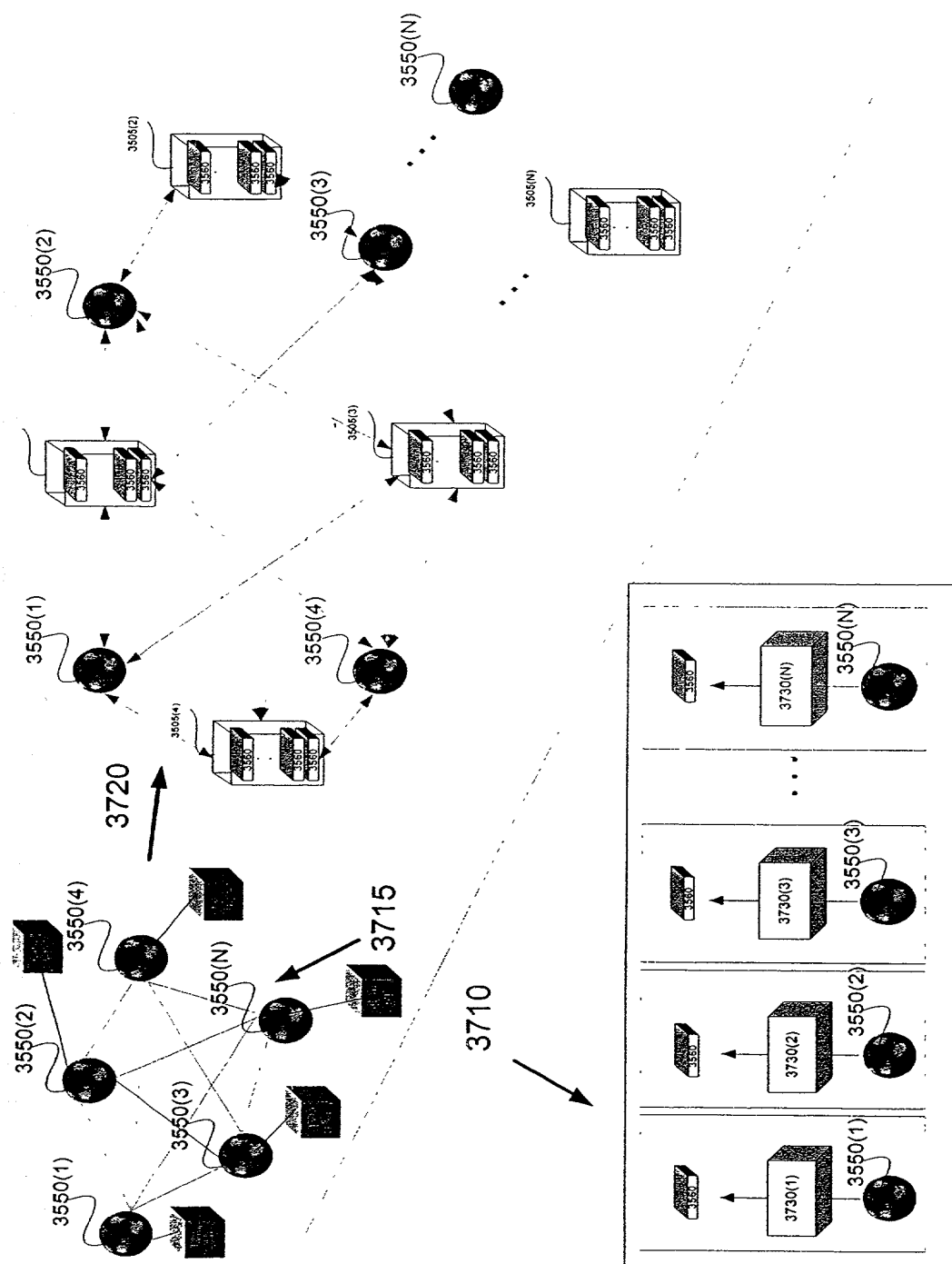


FIG. 37